State of New Mexico
Oil Conservation Division

Incident ID	nRM2014255492
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	39 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☑ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☑ Yes ☐ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nRM2014255492
District RP	
Facility ID	
Application ID	

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

Printed Name: Rob Kirk Title: General Manager, HSE & Compliance

Signature: Date: 08/20/21

email: rob.kirk@solarismidstream.com Telephone: (432)203-9020

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	nRM2014255492
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☑ Description of remediation activities

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

Printed Name: Rob Kirk Title: General Manager, HSE & Compliance

Signature: RP Kirk Date: 08/20/21

email: rob.kirk@solarismidstream.com Telephone: (432)203-9020

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Remediation Summary & Soil Closure Request

Solaris Water Midstream, LLC
Marathon Kyle to Willow State Line
Eddy County, New Mexico
Unit Letter L2, Section 3, Township 25 South, Range 28 East
Latitude 32.1646 North, Longitude 104.0743 West
NMOCD Reference No. nRM2014255492

Prepared By:

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

Ben J. Arguijo

Joel W. Lowry

ETECH Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Hobbs • Lafayette

TABLE OF CONTENTS

Section

PROJECT INFORMATION…. **1.0**
SITE CHARACTERIZATION…. **2.0**
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE…. **3.0**
INITIAL SITE ASSESSMENT…. **4.0**
REMEDIATION ACTIVITIES SUMMARY…. **5.0**
RESTORATION, RECLAMATION & RE-VEGETATION PLAN…. **6.0**
SOIL CLOSURE REQUEST…. **7.0**
LIMITATIONS…. **8.0**
DISTRIBUTION…. **9.0**

FIGURES

Figure 1 - Topographic Map
Figure 2 - Aerial Proximity Map
Figure 3A - Site & Sample Location Map (Delineation)
Figure 3B - Site & Sample Location Map (Excavation)

TABLES

Table 1 - Concentrations of BTEX, TPH & Chloride in Soil

APPENDICES

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

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Solaris Water Midstream, LLC, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Marathon Kyle to Willow State Line (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.1646 Longitude: -104.0743

Provided GPS are in WGS84 format.

Site Name: Marathon Kyle to Willow State Line	Site Type: Pipeline
Date Release Discovered: 5/18/2020	API # (if applicable): N/A

Unit Letter	Section	Township	Range	County
L2	3	25S	28E	Eddy

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

Nature and Volume of Release

[ ] Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
[X] Produced Water	Volume Released (bbls) 45	Volume Recovered (bbls) 40
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	[X] Yes [ ] No [ ] N/A
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[ ] Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:
A 4-inch polyethylene produced water line ruptured. The line was quickly turned off, as Solaris personnel were in the vicinity. The line was isolated, and the affected section was replaced. Released water flowed onto the adjacent oil field road. A Hydro-Vac truck nearby responded and captured most of the released water. The remainder absorbed into the soil. The impacted area is approximately 50 feet long by 10 feet wide, covering approximately 500 square feet. Release volume was determined by the size of the line, the response time to turn off the flow, and the impacted area.

Initial Response

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

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

2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	39'
Did the release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production or storage site?	☒ Yes ☐ No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

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

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 INITIAL SITE ASSESSMENT

On January 29, 2021, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores (SP1 through SP5) were advanced within the inferred margins of the affected area in an effort to determine the vertical extent of impacted soil. In addition, hand-augered soil bores (NH1, EH1, EH2, SH1, WH1, and WH2) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit (henceforth, "chloride test kit").

Based on field observations and field test data, a total of 23 delineation soil samples (NH 1 @ Surface, NH 1 @ 1', EH 1 @ Surface, EH 1 @ 1', EH 2 @ Surface, EH 2 @ 1', SH 1 @ Surface, SH 1 @ 1', WH 1 @ Surface, WH 1 @ 1', WH 2 @ Surface, WH 2 @ 1', SP 1 @ Surface, SP 1 @ 3', SP 2 @ Surface, SP 2 @ 5', SP 3 @ Surface, SP 3 @ 4', SP 3 @ 8', SP 4 @ Surface, SP 4 @ 4', SP 5 @ Surface, and SP 5 @ 5') were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal extent of impacted soil was adequately defined. Soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards beyond five (5) feet below ground surface (bgs) in the areas characterized by sample points SP1, SP2, and SP4. However, additional vertical delieation was required in the areas characterized by sample points SP3 and SP5.

On March 1, 2021, Etech revisited the Site. A backhoe was utilized to advance test trenches in the areas characterized by sample points SP3 and SP5 in an effort to further investigate the vertical extent of impacted soil. During the advancement of the test trenches, field soil samples were collected and field-screened for the presence of VOCs utilizing olfactory/visual senses and/or concentrations of chloride utilizing a chloride test kit.

Based on field observations and field test data, Etech submitted two (2) delineation soil samples (SP 3 @ 13' and SP 5 @ 6') to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples, and the vertical extent of impacted soil was adequately defined.

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

5.0 REMEDIATION ACTIVITIES SUMMARY

On May 5, 2021, remediation activities commenced at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The floor and sidewalls of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

On June 22, 2021, Etech collected nine (9) confirmation soil samples (NSW #1, ESW #1, SSW #1, and FL #1 through FL #6) from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On June 23, 2021, Etech collected two (2) confirmation soil samples (NSW #2C and SSW #2) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On June 24, 2021, Etech collected three (3) confirmation soil samples (FL #7 @ 20', FL #8 @ 20', and FL #9 @ 18') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 7, 2021, Etech collected 22 confirmation soil samples (NSW #3 @ 4', NSW #4 @ 4', ESW #2 @ 3', ESW #3 @ 4', ESW 4b @ 4', SSW #3 @ 10', WSW #1 @ 4', WSW #2 @ 4', WSW #3 @ 4', and FL #10 @ 18' through FL #22 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exceptions of soil samples FL #21 @ 4' and FL #22 @ 4', which exhibited chloride concentrations of 797 mg/kg and 1,000 mg/kg, respectively.

On July 8, 2021, Etech collected five (5) confirmation soil samples (ESW #5 @ 5', WSW #6 @ 4', FL #23 @ 4, FL #24 @ 5', and FL #26 @ 4) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 9, 2021, Etech collected 16 confirmation soil samples (ESW #6 @ 4' through ESW #8 @ 4', WSW #7 @ 4' through WSW #12 @ 4', FL #25 @ 4', and FL #27 @ 4' through FL #32 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 13, 2021, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FL #21 @ 4' and FL #22 @ 4'. Etech collected 45 confirmation soil samples (NSW #5 @ 4', NSW #6 @ 4', ESW #9 @ 4' through ESW #16 @ 9', SSW #5 @ 9', WSW #13 @ 4' through WSW #24 @ 9', FL #21 @ 5', FL #22 @ 5', FL #33 @ 4' through FL #37 @ 4', FL #38 @ 4 FT 6 IN, FL #39 @ 4 FT 6 IN, and FL #40 @ 4' through FL #52 @ 9') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil sample FL #51 @ 9', which exhibited a chloride concentration of 639 mg/kg.

On July 16, 2021, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FL #51 @ 9'. Etech collected one (1) confirmation soil sample (FL #51 @ 9 FT 6 IN) from the floor of the excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration in the soil sample was below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

The final dimensions of the excavated area were approximately 490 feet in length, 10 to 142 feet in width, and three (3) to 20 feet in depth. During the course of remediation activities, approximately 5,160 cubic yards of impacted soil was transported to an NMOCD-permitted surface waste facility for disposal.

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

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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

7.0 SOIL CLOSURE REQUEST

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

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

8.0 LIMITATIONS

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

This report has been prepared for the benefit of Solaris Water Midstream, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Solaris Water Midstream, LLC.

9.0 DISTRIBUTION

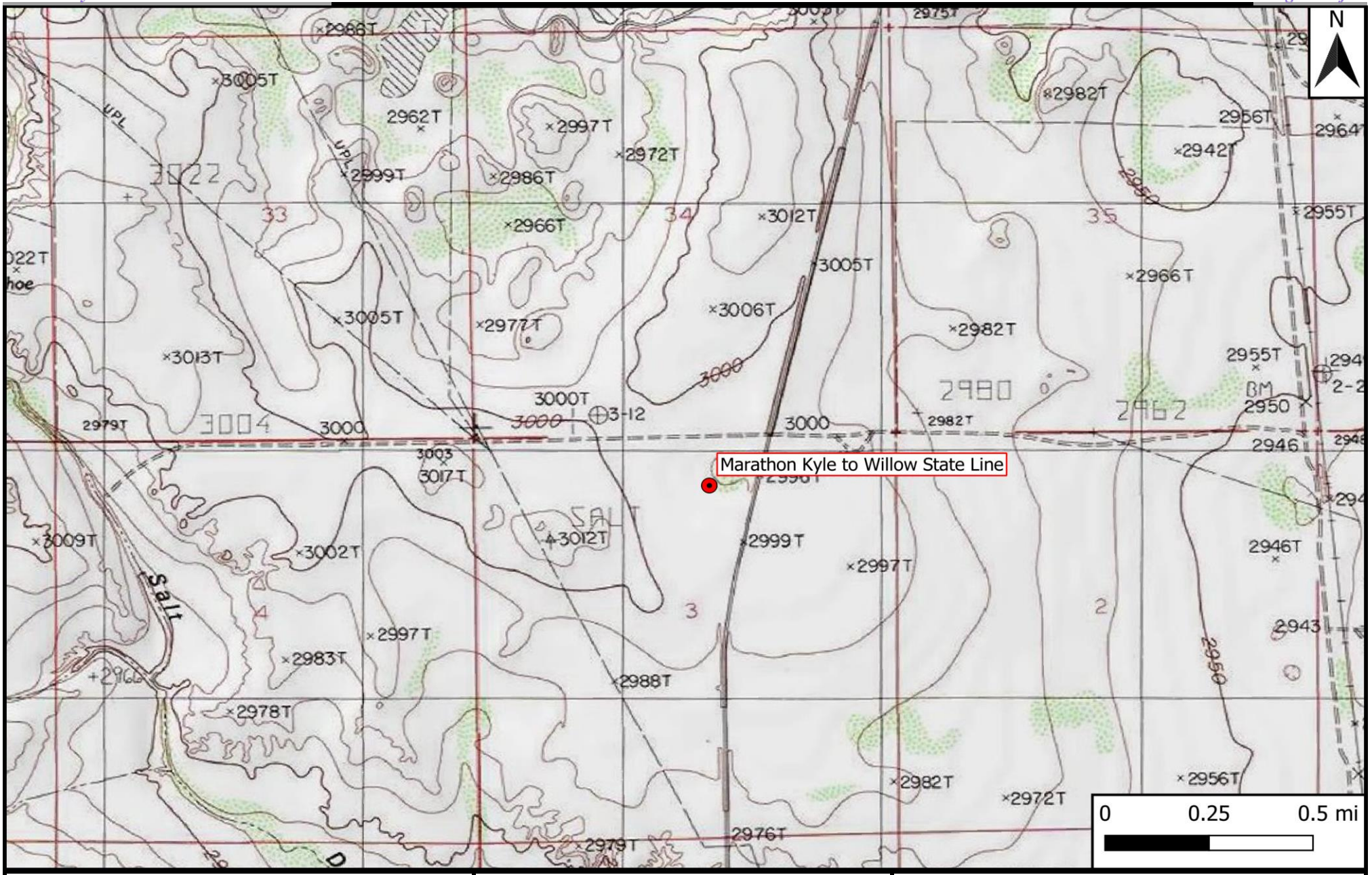
Solaris Water Midstream, LLC
907 Tradewinds Blvd, Suite B
Midland, TX 79706

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210

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

(Electronic Submission)

Figure 1
Topographic Map



Legend

- Site Location

Figure 1

Topographic Map

Solaris Water Midstream, LLC

Marathon Kyle to Willow State Line

GPS: 32.1646, -104.0743

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 7/22/21

Figure 2
Aerial Proximity Map

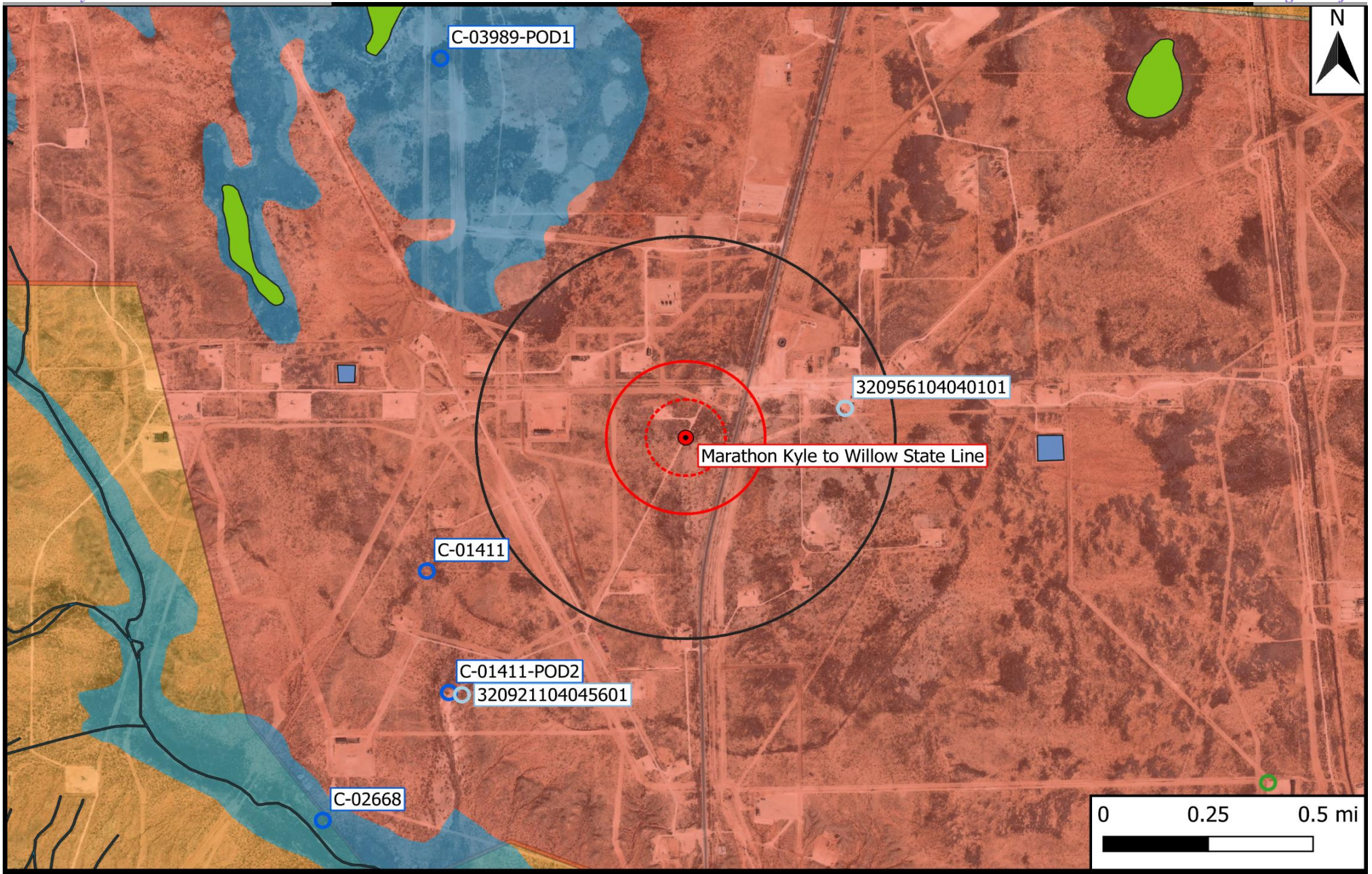
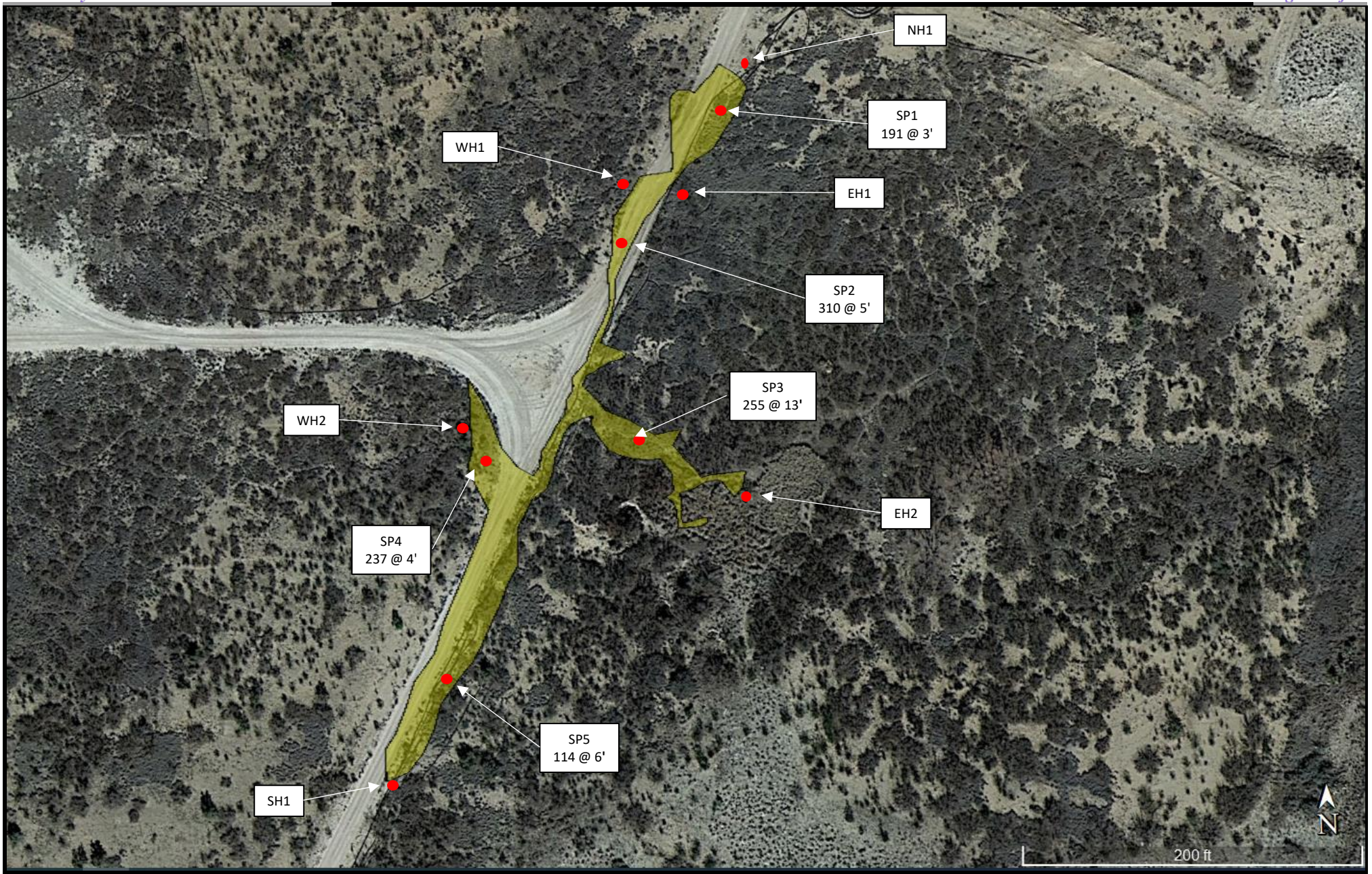


Figure 2
Aerial Proximity Map
Solaris Water Midstream, LLC
Marathon Kyle to Willow State Line
GPS: 32.1646, -104.0743
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 7/22/21

Figures 3A & 3B
Site & Sample Location Maps



Legend:

Affected Area

Sample Point

Figure 3A

Site & Sample Location Map (Delineation)

Marathon Kyle to Willow State Line

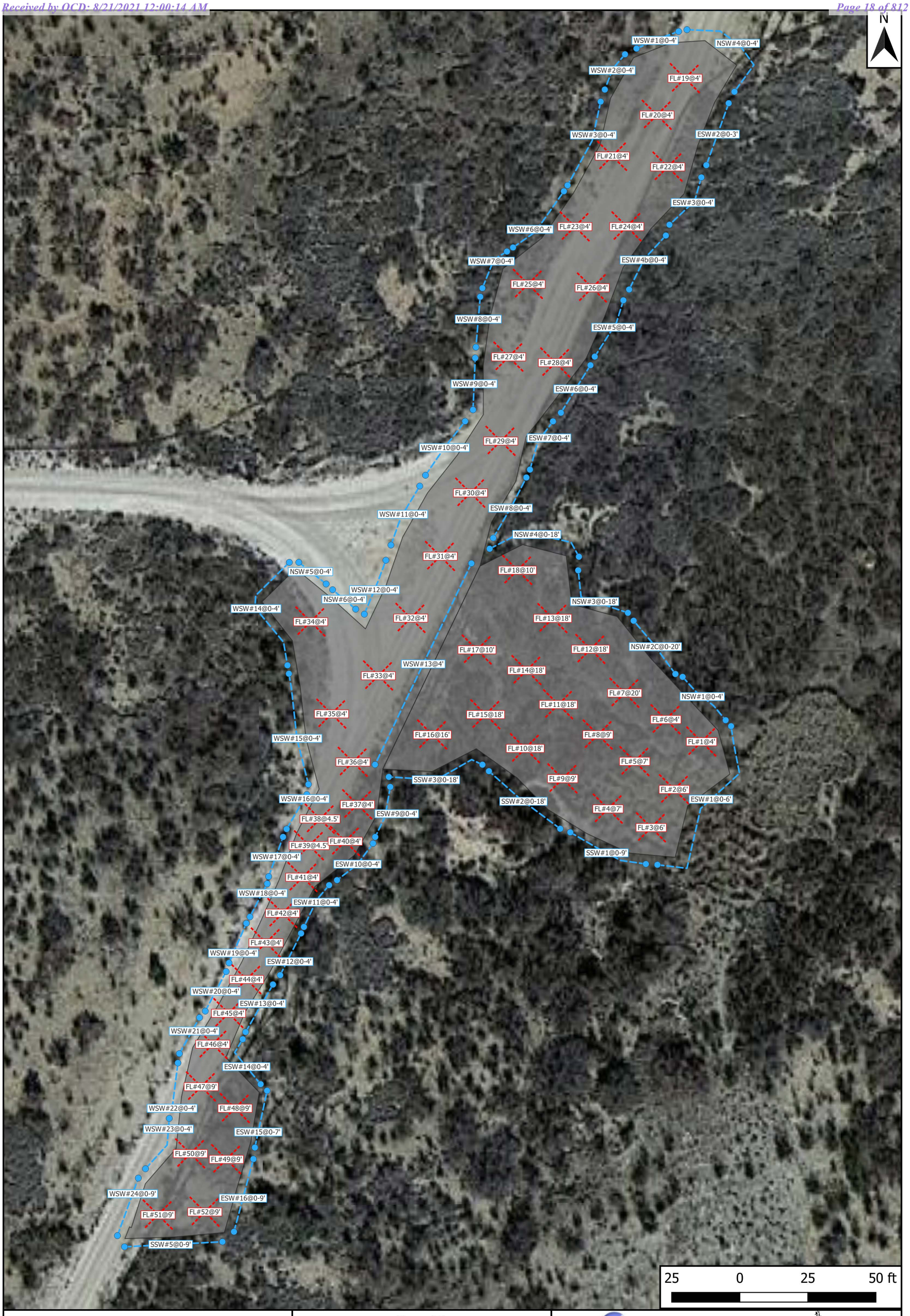
Solaris Water Midstream, LLC

GPS: 32.1646, -104.0743

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Revised: bja Checked: jwl Date: 8/13/21



Legend

- Excavated Area - 21,453 Ft²
- Composite Floor Sample
- Composite Wall Sample

Figure 3B
Site & Sample Location Map (Excavation)
Solaris Water Midstream
Marathon Kyle to Willow State Line
GPS: 32.1646, -104.0743
Eddy County, NM

eTECH Environmental & Safety Solutions, Inc.

Revised: BJA | Checked: JWL | Date: 8/17/2021

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Solaris Water Midstream, LLC
Marathon Kyle to Willow State Line
NMOCD Ref. #: nRM2014255492

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Sample ID	**Date**	**Depth (Feet)**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
Delineation Samples											
NH 1 @ Surface	1/29/2021	0	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	10.3
NH 1 @ 1'	1/29/2021	1	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	80.2
EH 1 @ Surface	1/29/2021	0	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	29.9
EH 1 @ 1'	1/29/2021	1	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	29.6
EH 2 @ Surface	1/29/2021	0	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	42.1
EH 2 @ 1'	1/29/2021	1	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	44.6
SH 1 @ Surface	1/29/2021	0	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	62.2
SH 1 @ 1'	1/29/2021	1	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	50.5
WH 1 @ Surface	1/29/2021	0	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	15.1
WH 1 @ 1'	1/29/2021	1	In-Situ	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	32.9
WH 2 @ Surface	1/29/2021	0	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	91.9
WH 2 @ 1'	1/29/2021	1	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	68.1
SP 1 @ Surface	1/29/2021	0	Excavated	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	**54,600**
SP 1 @ 3'	1/29/2021	3	Excavated	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	191
SP 2 @ Surface	1/29/2021	0	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	**39,200**
SP 2 @ 5'	1/29/2021	5	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	310
SP 3 @ Surface	1/29/2021	0	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.	**105,000**
SP 3 @ 4'	1/29/2021	4	Excavated	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	**11,200**
SP 3 @ 8'	1/29/2021	8	Excavated	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	**7,070**
SP 3 @ 13'	3/1/2021	13	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	255
SP 4 @ Surface	1/29/2021	0	Excavated	<0.00200	<0.00200	<49.9	226	226	<49.9	**226**	**26,900**
SP 4 @ 4'	1/29/2021	4	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	237
SP 5 @ Surface	1/29/2021	0	Excavated	<0.00199	<0.00199	<50.0	1,600	1,600	387	**1,990**	**48,200**
SP 5 @ 5'	1/29/2021	5	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	**762**
SP 5 @ 6'	3/1/2021	6	Excavated	<0.00198	<0.00198	<49.9	<49.9	<59.9	<49.9	<49.9	114
Excavation Samples											
NSW #1	6/22/2021	0-4	In-Situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	133
NSW #2C	6/23/2021	0-20	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	82.9
NSW #3 @ 4'	7/7/2021	0-4	In-Situ	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	37.5
NSW #4 @ 4'	7/7/2021	0-4	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	254
NSW #5 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	450
NSW #6 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	566
ESW #1	6/22/2021	0-6	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	27.8
ESW #2 @ 3'	7/7/2021	0-3	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	351
ESW #3 @ 4'	7/7/2021	0-4	In-Situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	127
ESW 4b @ 4'	7/7/2021	0-4	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	216
ESW #5 @ 5'	7/8/2021	0-5	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	26.3
ESW #6 @ 4'	7/9/2021	0-4	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	305
ESW #7 @ 4'	7/9/2021	0-4	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	122
ESW #8 @ 4'	7/9/2021	0-4	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	102

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

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Solaris Water Midstream, LLC
Marathon Kyle to Willow State Line
NMOCD Ref. #: nRM2014255492

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Sample ID	**Date**	**Depth (Feet)**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
ESW #9 @ 4'	7/13/2021	0-4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	73.6
ESW #10 @ 4'	7/13/2021	0-4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	70.4
ESW #11 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	284
ESW #12 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	187
ESW #13 @ 4'	7/13/2021	0-4	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	179
ESW #14 @ 4'	7/13/2021	0-4	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	80.3
ESW #15 @ 7'	7/13/2021	0-7	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	8.81
ESW #16 @ 9'	7/13/2021	0-9	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	16.2
SSW #1	6/22/2021	0-9	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	24.2
SSW #2	6/23/2021	0-18	In-Situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	592
SSW #3 @ 10'	7/7/2021	0-10	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	108
SSW #5 @ 9'	7/13/2021	0-9	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	30.6
WSW #1 @ 4'	7/7/2021	0-4	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	104
WSW #2 @ 4'	7/7/2021	0-4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	151
WSW #3 @ 4'	7/7/2021	0-4	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	59.5
WSW #6 @ 4'	7/8/2021	0-4	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	282
WSW #7 @ 4'	7/9/2021	0-4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	5.53
WSW #8 @ 4'	7/9/2021	0-4	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	68.4
WSW #9 @ 4'	7/9/2021	0-4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	262
WSW #10 @ 4	7/9/2021	0-4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	451
WSW #11 @ 4'	7/9/2021	0-4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	20.7
WSW #12 @ 4'	7/9/2021	0-4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	358
WSW #13 @ 4'	7/13/2021	0-4	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	459
WSW #14 @ 4'	7/13/2021	0-4	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	495
WSW #15 @ 4'	7/13/2021	0-4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	368
WSW #16 @ 4'	7/13/2021	0-4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	121
WSW #17 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	398
WSW #18 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	409
WSW #19 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	173
WSW #20 @ 4'	7/13/2021	0-4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	215
WSW #21 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	110
WSW #22 @ 4'	7/13/2021	0-4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	107
WSW #23 @ 4'	7/13/2021	0-4	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	98.0
WSW #24 @ 9'	7/13/2021	9	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	142
FL #1	6/22/2021	4	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	27.4
FL #2	6/22/2021	6	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	23.3
FL #3	6/22/2021	6	In-Situ	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	27.4
FL #4	6/22/2021	7	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	205
FL #5	6/22/2021	7	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	53.5
FL #6	6/22/2021	4	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	169
FL #7 @ 20'	6/24/2021	20	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	45.0

Dash (-): Sample not analyzed for that constituent.
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Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Solaris Water Midstream, LLC
Marathon Kyle to Willow State Line
NMOCD Ref. #: nRM2014255492

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Sample ID	**Date**	**Depth (Feet)**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
FL #8 @ 20'	6/24/2021	20	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	179
FL #9 @ 18'	6/24/2021	18	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	242
FL #10 @ 18'	7/7/2021	18	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	52.3
FL #11 @ 18'	7/7/2021	18	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	126
FL #12 @ 19'	7/7/2021	19	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	74.9
FL #13 @ 10'	7/7/2021	10	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	11.0
FL #14 @ 10'	7/7/2021	10	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	8.60
FL #15 @ 18'	7/7/2021	18	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	15.1
FL #16 @ 10'	7/7/2021	10	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	51.2
FL #17 @ 18'	7/7/2021	18	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	112
FL #18 @16'	7/7/2021	16	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	31.4
FL #19 @ 4'	7/7/2021	4	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	308
FL #20 @ 4'	7/7/2021	4	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	249
FL #21 @ 4'	7/7/2021	4	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**797**
FL #21 @ 5'	7/13/2021	5	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	74.8
FL #22 @ 4'	7/7/2021	4	Excavated	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	**1,000**
FL #22 @ 5'	7/13/2021	5	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	367
FL #23 @ 4'	7/8/2021	4	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	84.9
FL #24 @ 5'	7/8/2021	5	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	153
FL #25 @ 4'	7/9/2021	4	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	375
FL #26 @ 4'	7/8/2021	4	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	371
FL #27 @ 4'	7/9/2021	4	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	368
FL #28 @ 4'	7/9/2021	4	In-Situ	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	86.1
FL #29 @ 4'	7/9/2021	4	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	311
FL #30 @ 4'	7/9/2021	4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	47.3
FL #31 @ 4'	7/9/2021	4	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	19.5
FL #32 @ 4'	7/9/2021	4	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	<4.99
FL #33 @ 4'	7/13/2021	4	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	133
FL #34 @ 4'	7/13/2021	4	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	225
FL #35 @ 4'	7/13/2021	4	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	125
FL #36 @ 4'	7/13/2021	4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	126
FL #37 @ 4'	7/13/2021	4	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	168
FL #38 @ 4 FT 6 IN	7/13/2021	4.5	In-Situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	242
FL #39 @ 4 FT 6 IN	7/13/2021	4.5	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	101
FL #40 @ 4'	7/13/2021	4	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	134
FL #41 @ 4'	7/13/2021	4	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	64.8
FL #42 @ 4'	7/13/2021	4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	39.5
FL #43 @ 4'	7/13/2021	4	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	68.6
FL #44 @ 4'	7/13/2021	4	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	49.9
FL #45 @ 4'	7/13/2021	4	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	19.6
FL #46 @ 4'	7/13/2021	4	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	406

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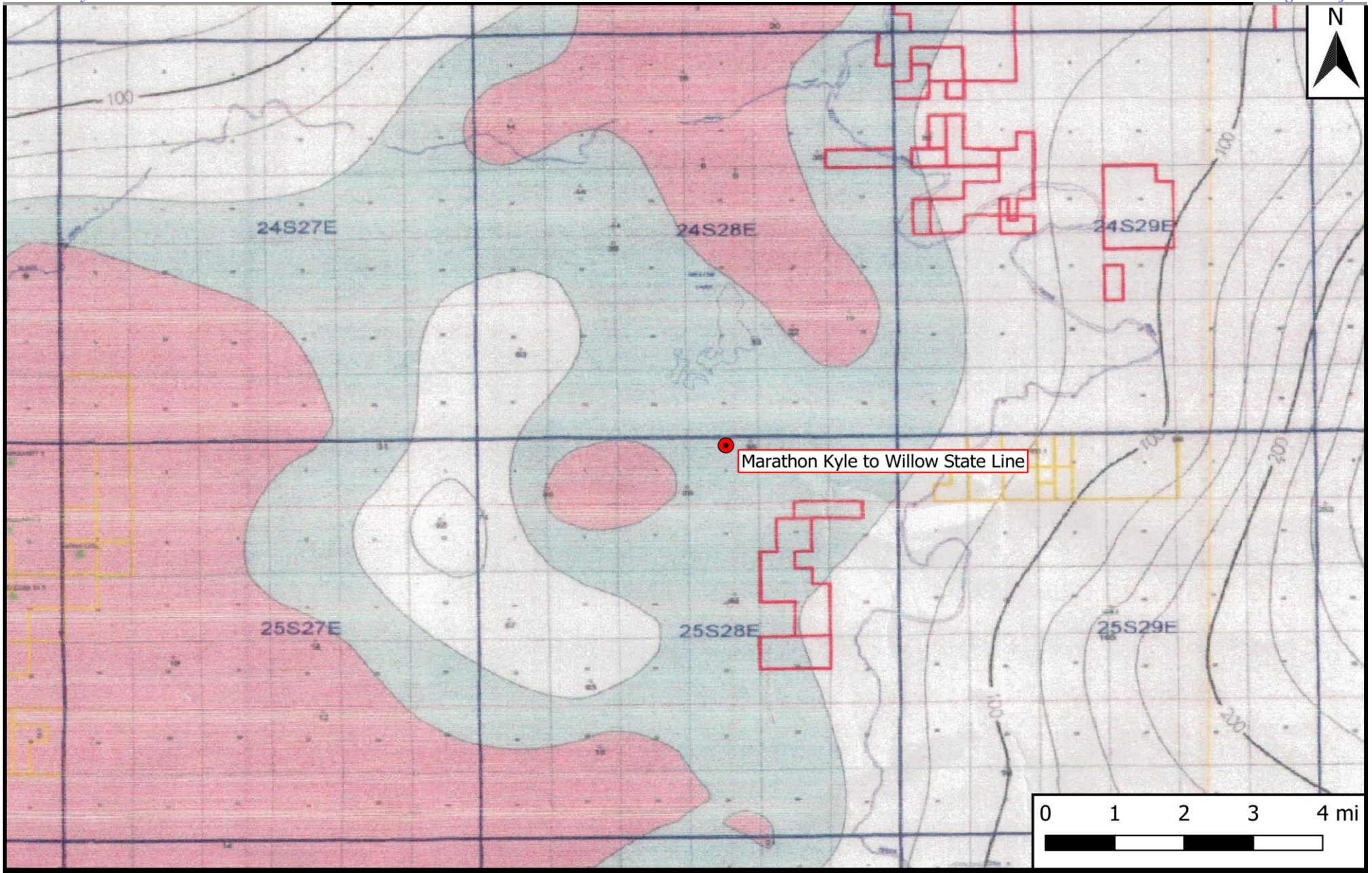
Concentrations of BTEX, TPH & Chloride in Soil
Solaris Water Midstream, LLC
Marathon Kyle to Willow State Line
NMOCD Ref. #: nRM2014255492

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Sample ID	**Date**	**Depth (Feet)**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
FL #47 @ 9'	7/13/2021	9	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	20.7
FL #48 @ 9'	7/13/2021	9	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	17.3
FL #49 @ 9'	7/13/2021	9	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	14.7
FL #50 @ 9'	7/13/2021	9	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	15.5
FL #51 @ 9'	7/13/2021	9	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**639**
FL #51 @ 9 FT 6 IN	7/16/2021	9.5	In-Situ	-	-	-	-	-	-	-	16.4
FL #52 @ 9'	7/13/2021	9	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	528

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

Appendix A
Depth to Groundwater Information



Legend

Site Location

Figure 4

Inferred Depth to Groundwater Trend Map

Solaris Water Midstream, LLC

Marathon Kyle to Willow State Line

GPS: 32.1646, -104.0743

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 7/22/21

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

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

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 01411	R	C	ED	4	4	2	04	25S	28E	586289	3558522*	1127	69	35	34
C 01411 POD2		C	ED	4	2	4	04	25S	28E	586374	3558036	1365	90	50	40

Average Depth to Water: **42 feet**

Minimum Depth: **35 feet**

Maximum Depth: **50 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 587282.4 **Northing (Y):** 3559055.97 **Radius:** 1610 (1 mile)

***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.

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 01411	4	4	2	04	25S	28E	586289	3558522*

Driller License: 439 **Driller Company:** WHITE, QUINCE L.

Driller Name: WHITE, QUINCE L.

Drill Start Date: 10/07/1969 **Drill Finish Date:** 10/15/1969 **Plug Date:**

Log File Date: 10/20/1969 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 20 GPM

Casing Size: 5.00 **Depth Well:** 69 feet **Depth Water:** 35 feet

Water Bearing Stratifications:	Top	Bottom	Description
	52	68	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	40	69

***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.

POINT OF DIVERSION SUMMARY

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twp	Rng	X	Y
2237E	C 01411 POD2	4	2	4	04	25S	28E	586374	3558036

Driller License: 1348 **Driller Company:** TAYLOR WATER WELL SERVICE

Driller Name: TAYLOR, CLINTON E.E.ENER

Drill Start Date: 02/09/2020 **Drill Finish Date:** 02/20/2020 **Plug Date:**

Log File Date: 02/21/2020 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 4 GPM

Casing Size: 5.00 **Depth Well:** 90 feet **Depth Water:** 50 feet

Water Bearing Stratifications:	Top	Bottom	Description
	40	60	Other/Unknown
	60	90	Other/Unknown

Casing Perforations:	Top	Bottom
	52	90

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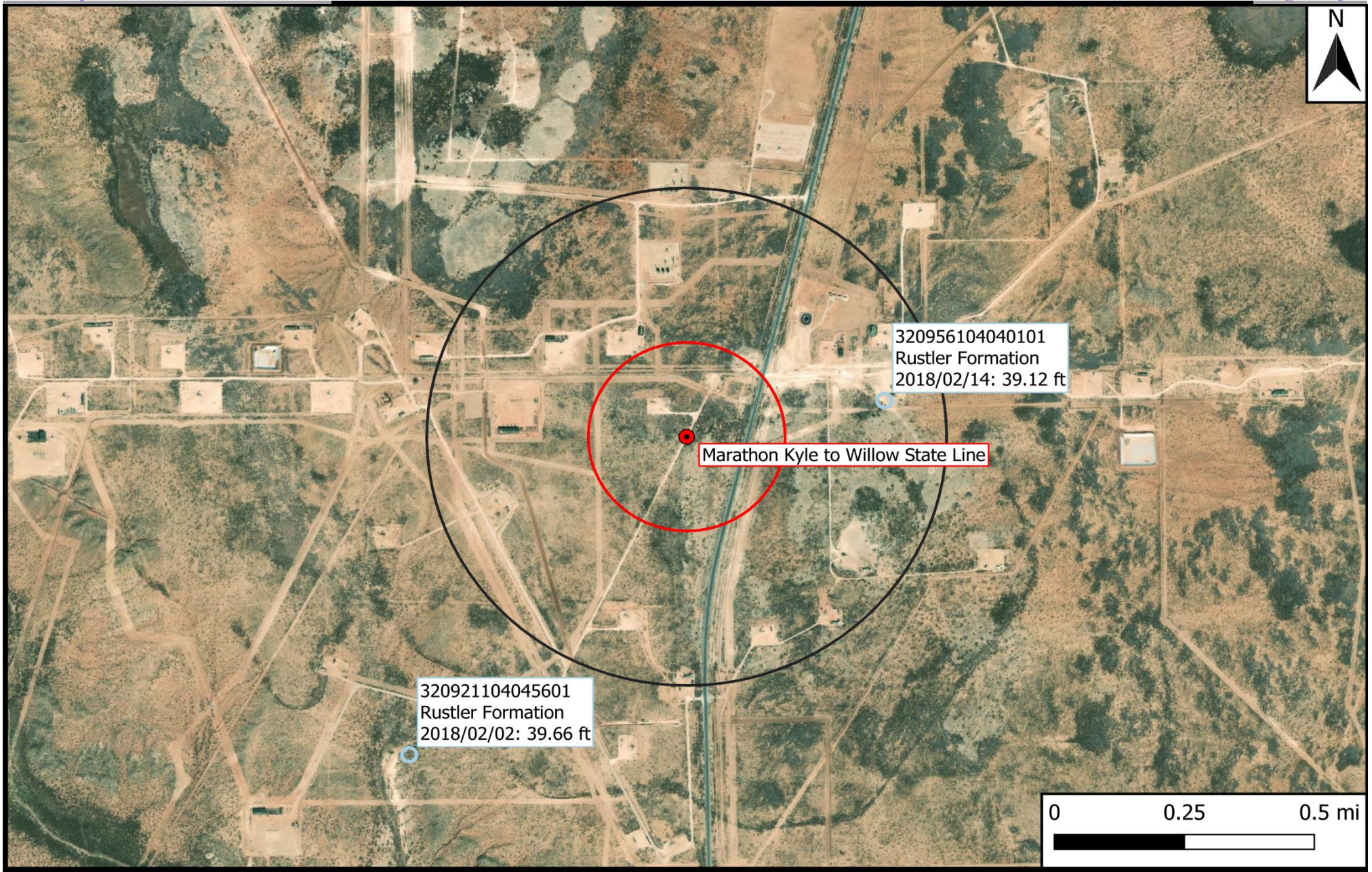
POINT OF DIVERSION SUMMARY



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

Figure 5
USGS Well Proximity Map
Solaris Water Midstream, LLC
Marathon Kyle to Willow State Line
GPS: 32.1646, -104.0743
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 7/22/21

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Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320956104040101

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

USGS 320956104040101 25S.28E.03.22231

Eddy County, New Mexico
Latitude 32°09'56.2", Longitude 104°04'04.1" NAD83
Land-surface elevation 2,990.20 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1948-12-06		D	72019	32.27			1	Z			A
1978-01-03		D	72019	32.97			1	Z			A
1983-02-01		D	72019	25.87			1	Z			A
1987-10-14		D	72019	29.27			1	Z			A
1988-03-22		D	72019	29.93			1	Z			A
1992-11-04		D	72019	35.03			1	S			A
1998-01-23		D	72019	33.84			1	S			A
2003-01-27		D	72019	32.08			1	S	USGS	S	A
2013-01-10	21:20 UTC	m	72019	33.56			1	S	USGS	S	A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
2018-02-14	16:56 UTC	m	72019	39.12			1	V	USGS	S	A
2021-02-24	19:00 UTC	m	72019	42.79			1	S	USGS	S	A

Explanation

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

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Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-08-13 17:05:11 EDT
0.38 0.24 nadww01

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Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320921104045601

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

USGS 320921104045601 25S.28E.04.42444

Eddy County, New Mexico
Latitude 32°09'19.4", Longitude 104°05'00.6" NAD83
Land-surface elevation 2,973.30 feet above NGVD29
The depth of the well is 68 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1983-02-16		D	72019	25.05			1	Z			A
1987-10-14		D	72019	23.02			1	Z			A
1992-11-18		D	72019	25.80			1	S			A
1998-01-23		D	72019	27.74			1	S			A
2003-01-27		D	72019	29.17			1	S	USGS	S	A
2013-01-10	21:00 UTC	m	72019	31.90			1	S	USGS	S	A
2018-02-14	17:22 UTC	m	72019	39.66			3	S	USGS	S	A
2021-02-24	19:26 UTC	m	72019	35.00			1	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	True value is above reported value due to local conditions
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-08-13 17:06:41 EDT
0.38 0.26 nadww01

Appendix B
Field Data & Soil Profile Logs

Page 35 of 812

BOTJ 4EW 3SW

eTECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 6/22/21

Project: Marathon Kyle to Willow State Line

Project Number: 13714 Latitude: 32.1646 Longitude: -104.0743

Sample ID	PID/Odor	Chloride Conc.	GPS
NSW #1	—	212	
ESW #1	—	184	
WSW #1	—	304	
SSW #1	—	184	
FL #1 @ 4'	—	ND	
FL #2 @ 6'	—	ND	
FL #3 @ 6'	—	ND	
FL #4 @ 7'	—	304	
FL #5 @ 7'	—	240	
FL #6 @ 4'	—	304	
FL #7 @ 4'	—	3,092	
FL #8 @ 9'	—	5,464	
FL #9 @ 9'	—	864	
FL #7 e 12'	—	3664	
FL #8 e 12'	—	2832	
FL #9 e 12'	—	1224	
NSW #2	—	1988	
SSW #2	—	500	
FL #7 e 16'	—	2484	
FL #8 e 16'	—	>2484	
FL #9 e 16'	—	804	
NSW #2B	—	1224	
FL #7 e 18'	—	1068	
FL #8 e 18'	—	1988	
FL #9 e 18'	—	1068	
NSW #2C 19'	—	212	
FL #7 @ 20'	—	1,224	476
FL #8 @ 20	—	1504	580
FL #9 @ 18'	—	1,068	524
SSW #3 @ 18'	—	212	
FL #12 @ 18	—	184	
WSW #2 @ 16	—	212	
WSW #3 @ 16	—	996	
WSW #4 @ 18	—	1,520	424
WSW #5 @ 18	—	[redacted]	2,296
WSW #6 @ 18	—	864	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Odometer 103 PIN 45301

Received by OCD: 8/21/2021 12:00:14 AM

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Page 36 of 812

TECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 6-22-21

Project: Marathon Kyle to willow StateLine

Project Number: 13714 Latitude: 32.1646 Longitude: -104.0743

Sample ID	PID/Odor	Chloride Conc.	GPS
NSW #3 @ 18'	—	416	
NSW #4 @ 18'	—	396	
FL #11 @ 18'	—	212	
FL #7 @ 20'	—	156	
FL #8 @ 20'	—	456	
FL #9 @ 18'	—	340	
FL #18 @ 20'	—	132	
FL #17 @ 10'	—		
WSW #7 @ 18'	—	1068	
FL #15 @ 12'	—		
WSW #1 @ 12'	—	588	
FL #12 @ 18'	—	804	
FL #13 @ 18'	—	ND	
FL #14 @ 20'	—	132	
FL #16 @ 9'	—		
FL #18 @ 9'	—	1,864	
FL #19 @ 14'	—	1,076	
NSW #4 @ 4'	—	368	
ESW #2 @ 3'	—	292	
ESW #3 @ 4'	—	196	
FL #19 @ 4'	—	292	
FL #20 @ 4'	—	292	
WSW #1 @ 4'	—	196	
WSW #2 @ 4'	—	196	
[redacted] ESW #4 @ 4'	—	1156	
FL #21 @ 4'	—	368	
[redacted] / WSW #3 @ 4'	—	1,076	
ESW B #3 @ 4'	—	196	
[redacted] / WSW #4 @ 4'	—	120	
ESW B #2 @ 4'	—	196	
FL #22 @ 4'	—	[redacted] 340	
FL #23 @ 4'	—	436	
FL #24 @ 4'	—	1,252	
WSW #5 @ 4'	—	636	
FL #24 B @ 5'	—	212	
WSW #6 @ 4'	—	392	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

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Page 37 of 812

TECH Environmental & Safety Solutions, Inc.

Sample Log

Date: _____

Project:

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL #24 @ 5'	—		
FL# 23 @ 4'	—		
FL # 26 @ 4	—		
WSW # 6 @ 4'	—		
ESW #5 @ 5'	—		
FL #25 @ 4'	—		
FL # 27 @ 4'	—	392	
FL # 28 @ 4'	—	212	
FL # 29 @ 4'	—	392	
ES W # 7 @ 4'	—	392	
WSW # 8 @ 4'	—	152	
WSW # 7 @ 4'	—	ND	
ESW # 6 @ 4'	—	392	
WSW #9 @	—	392	
FL #30 @ 4'	—	212	
FL # 31 @ 4'	—	168	
WSW # 10 @ 4'	—	412	
ESW # 8 @ 4'	—	196	
FL # 32 @ 4'	—	144	
WSW # 12 @ 4'	—	328	
WSW # 11 @ 4'	—	304	
NSW # 5 @ 4'	—	636	
NSW # 5B @ 4'	—	484	
WSW # 14 @ 4'	—	484	
WSW #13 @ 4'	—	240	
FL # 33 @ 4'	—	212	
FL # 34 @ 4'	—	382	
SSW #4 @ 4'	—	312	
WSW #15 @ 4'	—	392	
FL # 35 @ 4'	—	212	
NSW # 6 @ 4'	—	484	
FL # 36 @ 4'	—	180	
FL # 37 @ 4'	—	180	
WSW # 16 @ 4'	—	276	
FL # 38 @ 4'	—	688	
FL # 39 @ 4'	—	1252	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Received by OCD: 8/27/2021 12:00:14 AM

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Page 38 of 812

TECH Environmental & Safety Solutions, Inc.

Sample Log

Date: _____

Project:

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL #38B @ 4½	—	312	
FL #39B @ 4½	—	212	
WSW #17 @ 4	—	860	
FL #40 @ 4'	—	180	
ESW #9 @ 4'	—	212	
WSW #19B @ 4'	—	276	
ESW #10 @ 4'	—	180	
WSW #18 @ 4'	—	580	
FL #41 @ 4'	—	152	
WSW #19 @ 4'	—	312	
FL #42 @ 4'	—	ND	
WSW #18B @ 4'	—	580	
WSW #18C @ 4'	—	352	
ESW #11 @ 4'	—	312	
ESW #12 @ 4'	—	312	
FL #43 @ 4'	—	128	
WSW #20 @ 4'	—	212	
ESW #13 @ 4'	—	212	
FL #44 @ 4'	—	128	
WSW #21 @ 4'	—	240	
FL #45 @ 4'	—	ND	
WSW #22 @ 4'	—	212	
ESW #14 @ 4'	—	212	
FL #21 @ 5'	—	484	
FL #22 @ 5'	—	352	
FL #46 @ 4'	—	352	
ESW #15 @ 4'	—	TH	
WSW #23 @ 4'	—	212	
ESW #15B @ 5'	—	1,760	
FL #47 @ 5'	—	2528	
FL #47 @ 6'	—	1,252	
ESW #15C @ 6'	—	808	
ESW #15D @ 7'	—	ND	
FL #47 @ 7'	—	1,000	
FL #47 @ 9'	—	ND	
ESW #16 @ 9'	—	ND	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Received by OCD: 8/21/2021 12:00:14 AM

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Page 39 of 812

TECH Environmental & Safety Solutions, Inc.

Sample Log

Date: _____

Project:

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL #48 @ 9'	—	ND	
FL #49 @ 9'	—	ND	
FL #50 @ 9'	—	ND	
FL #51 @ 9'	—	352	
FL #52 @ 9'	—	352	
SSW #5 @ 9'	—	128	
WSW #24 @ 9'	—	2,172	
WSW #24B @ 9'	—	224	
FL #51 @ 9ft 6inches	—	ND	

Page 40 of 812

eTECH Environmental & Safety Solutions, Inc.

Soil Profile

Date: 6-23-2021

Project: Marathon Kyle to Willow State Line

Project Number: 13714 Latitude: 32.1646 Longitude: -104.0743

Depth (ft. bgs)	Description
3	Topsoil
4	Red Clayey Sand w/ Gypsum
12	Resilient Gypsum / Consolidated
20	TD

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Appendix C
Photographic Log

Photographic Log

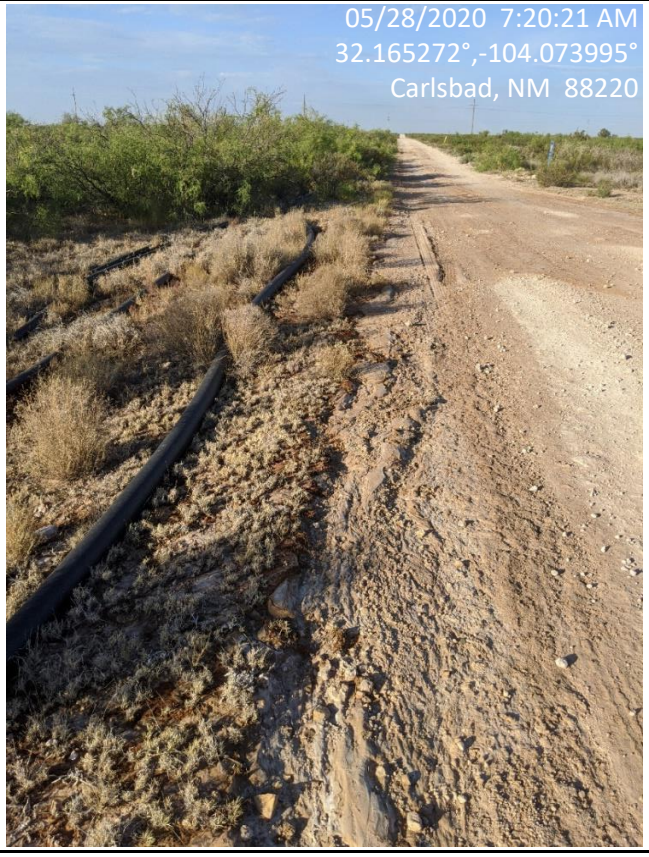
Photo Number: 1 **Photo Direction:** South-Southwest **Photo Description:** View of the affected area.	

Photo Number: 2 **Photo Direction:** South-Southwest **Photo Description:** View of the affected area.	

Photographic Log

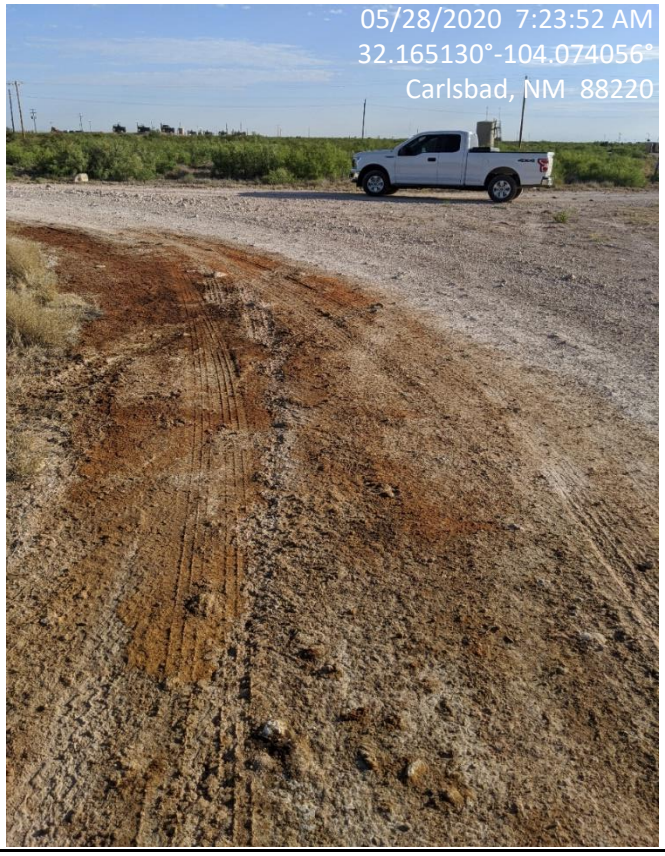
Photo Number: 3 **Photo Direction:** North **Photo Description:** View of the affected area.	

Photo Number: 4 **Photo Direction:** North-Northeast **Photo Description:** View of the excavated area.	

Photographic Log

Photo Number: 5	
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photo Number: 6	
Photo Direction: East-Southeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 7	
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

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

Photographic Log

Photo Number: 9	
Photo Direction: South-Southwest	
Photo Description: View of the remediated area after backfilling & regrading.	

Photo Number: 10	
Photo Direction: Southeast	
Photo Description: View of the remediated area after backfilling & regrading.	

Photographic Log

Photo Number: 11	
Photo Direction: South-Southwest	
Photo Description: View of the remediated area after backfilling & regrading.	

Photo Number: 12	
Photo Direction: South-Southwest	
Photo Description: View of the remediated area after backfilling & regrading.	

Photographic Log

Photo Number: 13	
Photo Direction: West-Southwest	
Photo Description: View of the remediated area after backfilling & regrading.	

Photo Number: 14	
Photo Direction: North-Northeast	
Photo Description: View of the remediated area after backfilling & regrading.	

Appendix D
Laboratory Analytical Reports

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Certificate of Analysis Summary 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Marathon Kyle to Willow State Line

Project Id: 13714
Contact: PM
Project Location: Rural Eddy County

Date Received in Lab: Fri 01.29.2021 15:34
Report Date: 02.08.2021 16:55
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	686653-001		686653-002		686653-003		686653-004		686653-005		686653-006	
	Field Id:	NH 1@ Surface		NH 1@ 1'		EH 1@ Surface		EH 1@ 1'		EH 2@ Surface		NH 2@ 1'	
	Depth:			1- ft				1- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00	
BTEX by EPA 8021B	***Extracted:***	02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30	
	Analyzed:	02.01.2021 16:04		02.01.2021 16:26		02.01.2021 16:49		02.01.2021 17:11		02.01.2021 17:34		02.01.2021 17:56	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Toluene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Ethylbenzene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
m,p-Xylenes		<0.00399	0.00399	<0.00396	0.00396	<0.00401	0.00401	<0.00401	0.00401	<0.00399	0.00399	<0.00397	0.00397
o-Xylene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Total Xylenes		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Total BTEX		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Inorganic Anions by EPA 300	***Extracted:***	01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14	
	Analyzed:	01.31.2021 02:29		01.31.2021 02:46		01.31.2021 02:52		01.31.2021 02:57		01.31.2021 03:03		01.31.2021 03:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		10.3 X	10.1	80.2	50.5	29.9	9.90	29.6	10.0	42.1	10.1	44.6	10.0
TPH by SW8015 Mod SUB: T104704400-20-21	***Extracted:***	02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00	
	Analyzed:	02.03.2021 22:43		02.03.2021 23:47		02.04.2021 00:08		02.04.2021 00:29		02.04.2021 00:50		02.04.2021 01:11	
	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	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Total TPH		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0

BRL - Below Reporting Limit

Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Marathon Kyle to Willow State Line

Project Id: 13714
Contact: PM
Project Location: Rural Eddy County

Date Received in Lab: Fri 01.29.2021 15:34
Report Date: 02.08.2021 16:55
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	686653-007		686653-008		686653-009		686653-010		686653-011		686653-012	
	Field Id:	SH 1@ Surface		SH 1@ 1'		WH 1@ Surface		WH 1@ 1'		WH 2@ Surface		WH 2@ 1'	
	Depth:			1- ft				1- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00	
BTEX by EPA 8021B	***Extracted:***	02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30	
	Analyzed:	02.01.2021 18:18		02.01.2021 18:41		02.01.2021 19:03		02.01.2021 19:26		02.01.2021 20:45		02.01.2021 21:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Toluene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Ethylbenzene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
m,p-Xylenes		<0.00399	0.00399	<0.00404	0.00404	<0.00401	0.00401	<0.00403	0.00403	<0.00401	0.00401	<0.00402	0.00402
o-Xylene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Total Xylenes		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Total BTEX		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Inorganic Anions by EPA 300	***Extracted:***	01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14	
	Analyzed:	01.31.2021 03:26		01.31.2021 03:31		01.31.2021 03:37		01.31.2021 03:43		01.31.2021 03:48		01.31.2021 04:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		62.2	50.4	50.5	50.5	15.1	10.0	32.9	10.0	91.9	49.6	68.1	49.5
TPH by SW8015 Mod SUB: T104704400-20-21	***Extracted:***	02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00	
	Analyzed:	02.04.2021 01:32		02.04.2021 01:53		02.04.2021 02:15		02.04.2021 02:36		02.04.2021 03:19		02.04.2021 03:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Total TPH		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9

BRL - Below Reporting Limit

Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Marathon Kyle to Willow State Line

Project Id: 13714
Contact: PM
Project Location: Rural Eddy County

Date Received in Lab: Fri 01.29.2021 15:34
Report Date: 02.08.2021 16:55
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	686653-013		686653-014		686653-015		686653-016		686653-017		686653-018	
	Field Id:	SP 1@ Surface		SP 1 @ 3'		SP 2@ Surface		SP 2 @ 5'		SP 3@ Surface		SP 3 @ 4'	
	Depth:			3- ft				5- ft				4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00	
BTEX by EPA 8021B	***Extracted:***	02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30	
	Analyzed:	02.01.2021 21:30		02.01.2021 21:52		02.01.2021 22:15		02.01.2021 22:37		02.01.2021 23:00		02.01.2021 23:22	
	Units/RL:	mg/kg	RL	mg/kg	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	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Toluene		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Ethylbenzene		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
m,p-Xylenes		<0.00397	0.00397	<0.00397	0.00397	<0.00399	0.00399	<0.00398	0.00398	<0.00401	0.00401	<0.00397	0.00397
o-Xylene		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Total Xylenes		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Total BTEX		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Inorganic Anions by EPA 300	***Extracted:***	01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14	
	Analyzed:	01.31.2021 04:11		01.31.2021 04:28		01.31.2021 04:34		01.31.2021 04:39		01.31.2021 04:45		01.31.2021 04:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		54600	1010	191	49.7	39200	1010	310	99.2	105000	1010	11200	198
TPH by SW8015 Mod SUB: T104704400-20-21	***Extracted:***	02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00	
	Analyzed:	02.04.2021 04:01		02.04.2021 04:22		02.04.2021 04:43		02.04.2021 05:05		02.04.2021 05:26		02.04.2021 05:48	
	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	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Total TPH		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0

BRL - Below Reporting Limit

Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Marathon Kyle to Willow State Line

Project Id: 13714
Contact: PM
Project Location: Rural Eddy County

Date Received in Lab: Fri 01.29.2021 15:34
Report Date: 02.08.2021 16:55
Project Manager: Jessica Kramer

Analysis Requested																							
	Lab Id:	686653-019				686653-020				686653-021				686653-022				686653-023					
	Field Id:	SP 4@ Surface				SP 4 @ 4'				SP 5 @ Surface				SP 5 @ 5'				FL 3 @ 8'					
	Depth:					4- ft								5- ft				8- ft					
	Matrix:	SOIL				SOIL				SOIL				SOIL				SOIL					
	Sampled:	01.29.2021 00:00				01.29.2021 00:00				01.29.2021 00:00				01.29.2021 00:00				01.29.2021 00:00					
BTEX by EPA 8021B	***Extracted:***	02.01.2021 10:30				02.01.2021 10:30				02.01.2021 15:32				02.01.2021 15:32				02.01.2021 15:32					
	Analyzed:	02.01.2021 23:45				02.02.2021 00:07				02.02.2021 04:17				02.02.2021 04:39				02.02.2021 05:01					
	Units/RL:	mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL				
Benzene		<0.00200	0.00200			<0.00200	0.00200			<0.00199	0.00199			<0.00200	0.00200			<0.00199	0.00199				
Toluene		<0.00200	0.00200			<0.00200	0.00200			<0.00199	0.00199			<0.00200	0.00200			<0.00199	0.00199				
Ethylbenzene		<0.00200	0.00200			<0.00200	0.00200			<0.00199	0.00199			<0.00200	0.00200			<0.00199	0.00199				
m,p-Xylenes		<0.00399	0.00399			<0.00401	0.00401			<0.00398	0.00398			<0.00399	0.00399			<0.00398	0.00398				
o-Xylene		<0.00200	0.00200			<0.00200	0.00200			<0.00199	0.00199			<0.00200	0.00200			<0.00199	0.00199				
Total Xylenes		<0.00200	0.00200			<0.00200	0.00200			<0.00199	0.00199			<0.00200	0.00200			<0.00199	0.00199				
Total BTEX		<0.00200	0.00200			<0.00200	0.00200			<0.00199	0.00199			<0.00200	0.00200			<0.00199	0.00199				
Inorganic Anions by EPA 300	***Extracted:***	01.30.2021 15:14				01.30.2021 15:14				01.30.2021 17:00				01.30.2021 17:00				01.30.2021 17:00					
	Analyzed:	01.31.2021 04:56				01.31.2021 05:02				02.01.2021 08:08				02.01.2021 08:25				02.01.2021 08:31					
	Units/RL:	mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL				
Chloride		26900	1000			237	201			48200	992			762	202			7070	200				
TPH by SW8015 Mod SUB: T104704400-20-21	***Extracted:***	02.03.2021 17:00				02.03.2021 17:00				02.03.2021 17:00				02.03.2021 17:00				02.06.2021 09:00					
	Analyzed:	02.04.2021 06:09				02.04.2021 06:30				02.04.2021 06:30				02.04.2021 06:09				02.07.2021 05:02					
	Units/RL:	mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9			<50.0	50.0			<50.0	50.0			<49.9	49.9			<50.0	50.0				
Diesel Range Organics (DRO)		226	49.9			<50.0	50.0			1600	50.0			<49.9	49.9			<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9			<50.0	50.0			387	50.0			<49.9	49.9			<50.0	50.0				
Total TPH		226	49.9			<50.0	50.0			1990	50.0			<49.9	49.9			<50.0	50.0				

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer

eurofins | Environment Testing Xenco

Analytical Report 686653

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Marathon Kyle to Willow State Line

13714

02.08.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins | Environment Testing Xenco

02.08.2021

Project Manager: **PM**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **686653**
Marathon Kyle to Willow State Line
Project Address: Rural Eddy County

PM :

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 Eurofins Xenco, LLC Report Number(s) 686653. 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 Eurofins Xenco, LLC. 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. 686653 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 Eurofins Xenco, LLC 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 Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NH 1@ Surface	S	01.29.2021 00:00		686653-001
NH 1@ 1'	S	01.29.2021 00:00	1 ft	686653-002
EH 1@ Surface	S	01.29.2021 00:00		686653-003
EH 1@ 1'	S	01.29.2021 00:00	1 ft	686653-004
EH 2@ Surface	S	01.29.2021 00:00		686653-005
NH 2@ 1'	S	01.29.2021 00:00	1 ft	686653-006
SH 1@ Surface	S	01.29.2021 00:00		686653-007
SH 1@ 1'	S	01.29.2021 00:00	1 ft	686653-008
WH 1@ Surface	S	01.29.2021 00:00		686653-009
WH 1@ 1'	S	01.29.2021 00:00	1 ft	686653-010
WH 2@ Surface	S	01.29.2021 00:00		686653-011
WH 2@ 1'	S	01.29.2021 00:00	1 ft	686653-012
SP 1@ Surface	S	01.29.2021 00:00		686653-013
SP 1 @ 3'	S	01.29.2021 00:00	3 ft	686653-014
SP 2@ Surface	S	01.29.2021 00:00		686653-015
SP 2 @ 5'	S	01.29.2021 00:00	5 ft	686653-016
SP 3@ Surface	S	01.29.2021 00:00		686653-017
SP 3 @ 4'	S	01.29.2021 00:00	4 ft	686653-018
SP 4@ Surface	S	01.29.2021 00:00		686653-019
SP 4 @ 4'	S	01.29.2021 00:00	4 ft	686653-020
SP 5 @ Surface	S	01.29.2021 00:00		686653-021
SP 5 @ 5'	S	01.29.2021 00:00	5 ft	686653-022
FL 3 @ 8'	S	01.29.2021 00:00	8 ft	686653-023

CASE NARRATIVE

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Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Marathon Kyle to Willow State Line

Project ID: *13714*
Work Order Number(s): *686653*

Report Date: *02.08.2021*
Date Received: *01.29.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3149506 Inorganic Anions by EPA 300

Lab Sample ID 686653-011 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: 686653-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3150001 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 686653-019.

Batch: LBA-3150325 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7721013-1-BLK.

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **NH 1@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-001 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.3**	10.1	mg/kg	01.31.2021 02:29	X	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.03.2021 22:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.03.2021 22:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.03.2021 22:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.03.2021 22:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	02.03.2021 22:43	
o-Terphenyl	84-15-1	111	%	70-130	02.03.2021 22:43	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**NH 1@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-001	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 16:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 16:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 16:04	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.01.2021 16:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 16:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 16:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 16:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.01.2021 16:04	
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.01.2021 16:04	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**NH 1@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-002	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P

Tech: MAB
Analyst: MAB
Seq Number: 3149506

Date Prep: 01.30.2021 15:14

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**80.2**	50.5	mg/kg	01.31.2021 02:46		5

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P

Tech: DVM
Analyst: ARM
Seq Number: 3150001

Date Prep: 02.03.2021 17:00

% Moisture:
Basis: Wet Weight
SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.03.2021 23:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.03.2021 23:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.03.2021 23:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.03.2021 23:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	02.03.2021 23:47	
o-Terphenyl	84-15-1	119	%	70-130	02.03.2021 23:47	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**NH 1@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-002	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.01.2021 16:26	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.01.2021 16:26	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.01.2021 16:26	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	02.01.2021 16:26	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.01.2021 16:26	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.01.2021 16:26	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.01.2021 16:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	02.01.2021 16:26	
1,4-Difluorobenzene	540-36-3	100	%	70-130	02.01.2021 16:26	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **EH 1@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-003 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**29.9**	9.90	mg/kg	01.31.2021 02:52		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 00:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.04.2021 00:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 00:08	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.04.2021 00:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	02.04.2021 00:08	
o-Terphenyl	84-15-1	118	%	70-130	02.04.2021 00:08	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**EH 1@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-003	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 16:49	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 16:49	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 16:49	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.01.2021 16:49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 16:49	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 16:49	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 16:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.01.2021 16:49	
1,4-Difluorobenzene	540-36-3	94	%	70-130	02.01.2021 16:49	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**EH 1@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-004	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.30.2021 15:14	% Moisture:	
Seq Number:	3149506			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**29.6**	10.0	mg/kg	01.31.2021 02:57		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.03.2021 17:00	% Moisture:	
Seq Number:	3150001			Basis:	Wet Weight
				SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.04.2021 00:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.04.2021 00:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.04.2021 00:29	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.04.2021 00:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	02.04.2021 00:29	
o-Terphenyl	84-15-1	123	%	70-130	02.04.2021 00:29	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**EH 1@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-004	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 17:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 17:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 17:11	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.01.2021 17:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 17:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 17:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 17:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	02.01.2021 17:11	
4-Bromofluorobenzene	460-00-4	100	%	70-130	02.01.2021 17:11	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **EH 2@ Surface** Matrix: Soil Date Received:01.29.2021 15:34
Lab Sample Id: 686653-005 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: MAB
Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:
Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**42.1**	10.1	mg/kg	01.31.2021 03:03		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM
Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:
Seq Number: 3150001 Basis: Wet Weight
SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 00:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 00:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 00:50	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 00:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	02.04.2021 00:50	
o-Terphenyl	84-15-1	121	%	70-130	02.04.2021 00:50	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**EH 2@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-005	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 17:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 17:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 17:34	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.01.2021 17:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 17:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 17:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 17:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	02.01.2021 17:34	
1,4-Difluorobenzene	540-36-3	101	%	70-130	02.01.2021 17:34	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **NH 2@ 1'** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-006 Date Collected: 01.29.2021 00:00 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**44.6**	10.0	mg/kg	01.31.2021 03:20		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 01:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 01:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 01:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 01:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	02.04.2021 01:11	
o-Terphenyl	84-15-1	124	%	70-130	02.04.2021 01:11	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**NH 2@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-006	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.01.2021 17:56	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.01.2021 17:56	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.01.2021 17:56	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.01.2021 17:56	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.01.2021 17:56	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.01.2021 17:56	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.01.2021 17:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	02.01.2021 17:56	
1,4-Difluorobenzene	540-36-3	97	%	70-130	02.01.2021 17:56	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SH 1@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-007 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**62.2**	50.4	mg/kg	01.31.2021 03:26		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 01:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.04.2021 01:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 01:32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.04.2021 01:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	02.04.2021 01:32	
o-Terphenyl	84-15-1	121	%	70-130	02.04.2021 01:32	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SH 1@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-007	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 18:18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 18:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 18:18	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.01.2021 18:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 18:18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 18:18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 18:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	02.01.2021 18:18	
4-Bromofluorobenzene	460-00-4	100	%	70-130	02.01.2021 18:18	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SH 1@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-008	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P

Tech: MAB
Analyst: MAB
Seq Number: 3149506

Date Prep: 01.30.2021 15:14

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**50.5**	50.5	mg/kg	01.31.2021 03:31		5

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P

Tech: DVM
Analyst: ARM
Seq Number: 3150001

Date Prep: 02.03.2021 17:00

% Moisture:
Basis: Wet Weight
SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 01:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 01:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 01:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 01:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	02.04.2021 01:53	
o-Terphenyl	84-15-1	125	%	70-130	02.04.2021 01:53	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SH 1@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-008	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.01.2021 18:41	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.01.2021 18:41	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.01.2021 18:41	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	02.01.2021 18:41	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.01.2021 18:41	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.01.2021 18:41	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.01.2021 18:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	02.01.2021 18:41	
1,4-Difluorobenzene	540-36-3	102	%	70-130	02.01.2021 18:41	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **WH 1@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-009 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.1**	10.0	mg/kg	01.31.2021 03:37		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 02:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.04.2021 02:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 02:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.04.2021 02:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	02.04.2021 02:15	
o-Terphenyl	84-15-1	123	%	70-130	02.04.2021 02:15	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**WH 1@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-009	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 19:03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 19:03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 19:03	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.01.2021 19:03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 19:03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 19:03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 19:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	02.01.2021 19:03	
1,4-Difluorobenzene	540-36-3	99	%	70-130	02.01.2021 19:03	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **WH 1@ 1'** Matrix: Soil Date Received:01.29.2021 15:34
Lab Sample Id: 686653-010 Date Collected: 01.29.2021 00:00 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: MAB
Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:
Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**32.9**	10.0	mg/kg	01.31.2021 03:43		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM
Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:
Seq Number: 3150001 Basis: Wet Weight
SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.04.2021 02:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.04.2021 02:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.04.2021 02:36	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.04.2021 02:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	02.04.2021 02:36	
o-Terphenyl	84-15-1	118	%	70-130	02.04.2021 02:36	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**WH 1@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-010	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.01.2021 19:26	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.01.2021 19:26	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.01.2021 19:26	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.01.2021 19:26	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.01.2021 19:26	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.01.2021 19:26	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.01.2021 19:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	02.01.2021 19:26	
1,4-Difluorobenzene	540-36-3	99	%	70-130	02.01.2021 19:26	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **WH 2@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-011 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**91.9**	49.6	mg/kg	01.31.2021 03:48		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 03:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 03:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 03:19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 03:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	02.04.2021 03:19	
o-Terphenyl	84-15-1	120	%	70-130	02.04.2021 03:19	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**WH 2@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-011	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 20:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 20:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 20:45	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.01.2021 20:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 20:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 20:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 20:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.01.2021 20:45	
4-Bromofluorobenzene	460-00-4	99	%	70-130	02.01.2021 20:45	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**WH 2@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-012	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.30.2021 15:14	% Moisture:	
Seq Number:	3149506			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**68.1**	49.5	mg/kg	01.31.2021 04:05		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.03.2021 17:00	% Moisture:	
Seq Number:	3150001			Basis:	Wet Weight
				SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 03:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.04.2021 03:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 03:40	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.04.2021 03:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	02.04.2021 03:40	
o-Terphenyl	84-15-1	127	%	70-130	02.04.2021 03:40	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**WH 2@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-012	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.01.2021 21:08	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.01.2021 21:08	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.01.2021 21:08	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.01.2021 21:08	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.01.2021 21:08	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.01.2021 21:08	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.01.2021 21:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	02.01.2021 21:08	
1,4-Difluorobenzene	540-36-3	93	%	70-130	02.01.2021 21:08	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SP 1@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-013 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**54600**	1010	mg/kg	01.31.2021 04:11		100

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 04:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 04:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 04:01	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 04:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	02.04.2021 04:01	
o-Terphenyl	84-15-1	104	%	70-130	02.04.2021 04:01	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 1@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-013	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.01.2021 21:30	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.01.2021 21:30	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.01.2021 21:30	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.01.2021 21:30	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.01.2021 21:30	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.01.2021 21:30	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.01.2021 21:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	02.01.2021 21:30	
1,4-Difluorobenzene	540-36-3	100	%	70-130	02.01.2021 21:30	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 1 @ 3'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-014	Date Collected:	01.29.2021 00:00	Sample Depth:	3 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.30.2021 15:14	% Moisture:	
Seq Number:	3149506			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**191**	49.7	mg/kg	01.31.2021 04:28		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.03.2021 17:00	% Moisture:	
Seq Number:	3150001			Basis:	Wet Weight
				SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 04:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 04:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 04:22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 04:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	02.04.2021 04:22	
o-Terphenyl	84-15-1	110	%	70-130	02.04.2021 04:22	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 1 @ 3'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-014	Date Collected:	01.29.2021 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.01.2021 21:52	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.01.2021 21:52	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.01.2021 21:52	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.01.2021 21:52	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.01.2021 21:52	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.01.2021 21:52	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.01.2021 21:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	02.01.2021 21:52	
1,4-Difluorobenzene	540-36-3	98	%	70-130	02.01.2021 21:52	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SP 2@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-015 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**39200**	1010	mg/kg	01.31.2021 04:34		100

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 04:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.04.2021 04:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 04:43	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.04.2021 04:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	02.04.2021 04:43	
o-Terphenyl	84-15-1	124	%	70-130	02.04.2021 04:43	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 2@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-015	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 22:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 22:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 22:15	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.01.2021 22:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 22:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 22:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 22:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.01.2021 22:15	
4-Bromofluorobenzene	460-00-4	109	%	70-130	02.01.2021 22:15	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 2 @ 5'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-016	Date Collected:	01.29.2021 00:00	Sample Depth:	5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.30.2021 15:14	% Moisture:	
Seq Number:	3149506			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**310**	99.2	mg/kg	01.31.2021 04:39		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.03.2021 17:00	% Moisture:	
Seq Number:	3150001			Basis:	Wet Weight
				SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 05:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 05:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 05:05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 05:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	02.04.2021 05:05	
o-Terphenyl	84-15-1	117	%	70-130	02.04.2021 05:05	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 2 @ 5'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-016	Date Collected:	01.29.2021 00:00	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.01.2021 22:37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.01.2021 22:37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.01.2021 22:37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.01.2021 22:37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.01.2021 22:37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.01.2021 22:37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.01.2021 22:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.01.2021 22:37	
4-Bromofluorobenzene	460-00-4	107	%	70-130	02.01.2021 22:37	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SP 3@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-017 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**105000**	1010	mg/kg	01.31.2021 04:45		100

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 05:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.04.2021 05:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 05:26	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.04.2021 05:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	02.04.2021 05:26	
o-Terphenyl	84-15-1	123	%	70-130	02.04.2021 05:26	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 3@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-017	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 23:00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 23:00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 23:00	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.01.2021 23:00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 23:00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 23:00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 23:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	02.01.2021 23:00	
4-Bromofluorobenzene	460-00-4	98	%	70-130	02.01.2021 23:00	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 3 @ 4'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-018	Date Collected:	01.29.2021 00:00	Sample Depth:	4 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.30.2021 15:14	% Moisture:	
Seq Number:	3149506			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11200**	198	mg/kg	01.31.2021 04:51		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.03.2021 17:00	% Moisture:	
Seq Number:	3150001			Basis:	Wet Weight
				SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 05:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 05:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 05:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 05:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	02.04.2021 05:48	
o-Terphenyl	84-15-1	121	%	70-130	02.04.2021 05:48	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 3 @ 4'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-018	Date Collected:	01.29.2021 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.01.2021 23:22	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.01.2021 23:22	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.01.2021 23:22	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.01.2021 23:22	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.01.2021 23:22	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.01.2021 23:22	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.01.2021 23:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	02.01.2021 23:22	
4-Bromofluorobenzene	460-00-4	104	%	70-130	02.01.2021 23:22	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SP 4@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-019 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**26900**	1000	mg/kg	01.31.2021 04:56		100

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 06:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	**226**	49.9	mg/kg	02.04.2021 06:09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 06:09	U	1
Total TPH	PHC635	**226**	49.9	mg/kg	02.04.2021 06:09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-130	02.04.2021 06:09	
o-Terphenyl	84-15-1	136	%	70-130	02.04.2021 06:09	**

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 4@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-019	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 23:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 23:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 23:45	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.01.2021 23:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 23:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 23:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 23:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	02.01.2021 23:45	
1,4-Difluorobenzene	540-36-3	101	%	70-130	02.01.2021 23:45	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 4 @ 4'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-020	Date Collected:	01.29.2021 00:00	Sample Depth:	4 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.30.2021 15:14	% Moisture:	
Seq Number:	3149506			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**237**	201	mg/kg	01.31.2021 05:02		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.03.2021 17:00	% Moisture:	
Seq Number:	3150001			Basis:	Wet Weight
				SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 06:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 06:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 06:30	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 06:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	02.04.2021 06:30	
o-Terphenyl	84-15-1	116	%	70-130	02.04.2021 06:30	

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Marathon Kyle to Willow State Line

Sample Id:	**SP 4 @ 4'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-020	Date Collected:	01.29.2021 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.02.2021 00:07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.02.2021 00:07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.02.2021 00:07	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.02.2021 00:07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.02.2021 00:07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.02.2021 00:07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.02.2021 00:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	02.02.2021 00:07	
1,4-Difluorobenzene	540-36-3	102	%	70-130	02.02.2021 00:07	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SP 5 @ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-021 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 17:00 % Moisture:

Seq Number: 3149574 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**48200**	992	mg/kg	02.01.2021 08:08		100

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150009 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 06:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1600**	50.0	mg/kg	02.04.2021 06:30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**387**	50.0	mg/kg	02.04.2021 06:30		1
Total TPH	PHC635	**1990**	50.0	mg/kg	02.04.2021 06:30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	02.04.2021 06:30	
o-Terphenyl	84-15-1	121	%	70-130	02.04.2021 06:30	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 5 @ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-021	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 15:32	% Moisture:	
Seq Number:	3149922			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.02.2021 04:17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.02.2021 04:17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.02.2021 04:17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.02.2021 04:17	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.02.2021 04:17	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.02.2021 04:17	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.02.2021 04:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	02.02.2021 04:17	
1,4-Difluorobenzene	540-36-3	105	%	70-130	02.02.2021 04:17	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 5 @ 5'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-022	Date Collected:	01.29.2021 00:00	Sample Depth:	5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.30.2021 17:00	% Moisture:	
Seq Number:	3149574			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**762**	202	mg/kg	02.01.2021 08:25		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.03.2021 17:00	% Moisture:	
Seq Number:	3150009			Basis:	Wet Weight
				SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 06:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.04.2021 06:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 06:09	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.04.2021 06:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	02.04.2021 06:09	
o-Terphenyl	84-15-1	99	%	70-130	02.04.2021 06:09	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 5 @ 5'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-022	Date Collected:	01.29.2021 00:00	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 15:32	% Moisture:	
Seq Number:	3149922			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.02.2021 04:39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.02.2021 04:39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.02.2021 04:39	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.02.2021 04:39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.02.2021 04:39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.02.2021 04:39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.02.2021 04:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	02.02.2021 04:39	
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.02.2021 04:39	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**FL 3 @ 8'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-023	Date Collected:	01.29.2021 00:00	Sample Depth:	8 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.30.2021 17:00	% Moisture:	
Seq Number:	3149574			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7070**	200	mg/kg	02.01.2021 08:31		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.06.2021 09:00	% Moisture:	
Seq Number:	3150325			Basis:	Wet Weight
				SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.07.2021 05:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.07.2021 05:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.07.2021 05:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.07.2021 05:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	02.07.2021 05:02	
o-Terphenyl	84-15-1	124	%	70-130	02.07.2021 05:02	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**FL 3 @ 8'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-023	Date Collected:	01.29.2021 00:00	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 15:32	% Moisture:	
Seq Number:	3149922			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.02.2021 05:01	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.02.2021 05:01	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.02.2021 05:01	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.02.2021 05:01	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.02.2021 05:01	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.02.2021 05:01	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.02.2021 05:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	02.02.2021 05:01	
1,4-Difluorobenzene	540-36-3	100	%	70-130	02.02.2021 05:01	

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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.

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. **ND** Not Detected.

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

QC Summary 686653

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Etech Environmental & Safety Solution, Inc

Marathon Kyle to Willow State Line

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3149506 — Matrix: Solid — Date Prep: 01.30.2021
MB Sample Id: 7720399-1-BLK — LCS Sample Id: 7720399-1-BKS — LCSD Sample Id: 7720399-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	204	102	201	101	90-110	1	20	mg/kg	01.31.2021 02:18	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3149574 — Matrix: Solid — Date Prep: 01.30.2021
MB Sample Id: 7720400-1-BLK — LCS Sample Id: 7720400-1-BKS — LCSD Sample Id: 7720400-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	196	98	195	98	90-110	1	20	mg/kg	02.01.2021 07:57	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3149506 — Matrix: Soil — Date Prep: 01.30.2021
Parent Sample Id: 686653-001 — MS Sample Id: 686653-001 S — MSD Sample Id: 686653-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.3	198	272	132	278	135	90-110	2	20	mg/kg	01.31.2021 02:35	X

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3149506 — Matrix: Soil — Date Prep: 01.30.2021
Parent Sample Id: 686653-011 — MS Sample Id: 686653-011 S — MSD Sample Id: 686653-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	91.9	201	278	93	274	91	90-110	1	20	mg/kg	01.31.2021 03:54	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3149574 — Matrix: Soil — Date Prep: 01.30.2021
Parent Sample Id: 686653-021 — MS Sample Id: 686653-021 S — MSD Sample Id: 686653-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	48200	200	48400	100	48400	100	90-110	0	20	mg/kg	02.01.2021 08:14	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3149574 — Matrix: Soil — Date Prep: 01.30.2021
Parent Sample Id: 686654-008 — MS Sample Id: 686654-008 S — MSD Sample Id: 686654-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	79.0	200	279	100	279	101	90-110	0	20	mg/kg	02.01.2021 09:34	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 686653

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Etech Environmental & Safety Solution, Inc

Marathon Kyle to Willow State Line

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3150001 — Matrix: Solid — Date Prep: 02.03.2021
MB Sample Id: 7720760-1-BLK — LCS Sample Id: 7720760-1-BKS — LCSD Sample Id: 7720760-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1090	109	1120	112	70-130	3	20	mg/kg	02.03.2021 22:01	
Diesel Range Organics (DRO)	<50.0	1000	1050	105	1060	106	70-130	1	20	mg/kg	02.03.2021 22:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		106		110		70-130	%	02.03.2021 22:01
o-Terphenyl	128		113		114		70-130	%	02.03.2021 22:01

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3150009 — Matrix: Solid — Date Prep: 02.03.2021
MB Sample Id: 7720763-1-BLK — LCS Sample Id: 7720763-1-BKS — LCSD Sample Id: 7720763-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	917	92	904	90	70-130	1	20	mg/kg	02.03.2021 22:01	
Diesel Range Organics (DRO)	<50.0	1000	1040	104	1030	103	70-130	1	20	mg/kg	02.03.2021 22:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		105		106		70-130	%	02.03.2021 22:01
o-Terphenyl	125		111		111		70-130	%	02.03.2021 22:01

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3150325 — Matrix: Solid — Date Prep: 02.06.2021
MB Sample Id: 7721013-1-BLK — LCS Sample Id: 7721013-1-BKS — LCSD Sample Id: 7721013-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1030	103	1060	106	70-130	3	20	mg/kg	02.06.2021 22:01	
Diesel Range Organics (DRO)	<50.0	1000	979	98	1000	100	70-130	2	20	mg/kg	02.06.2021 22:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		102		114		70-130	%	02.06.2021 22:01
o-Terphenyl	138	**	124		127		70-130	%	02.06.2021 22:01

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3150001 — Matrix: Solid — Date Prep: 02.03.2021
MB Sample Id: 7720760-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.03.2021 21:39	

MS/MSD Percent Recovery [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 686653

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Etech Environmental & Safety Solution, Inc

Marathon Kyle to Willow State Line

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3150009 Matrix: Solid Date Prep: 02.03.2021
MB Sample Id: 7720763-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.03.2021 21:39	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3150325 Matrix: Solid Date Prep: 02.06.2021
MB Sample Id: 7721013-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.06.2021 21:39	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3150001 Matrix: Soil Date Prep: 02.03.2021
Parent Sample Id: 686653-001 MS Sample Id: 686653-001 S MSD Sample Id: 686653-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	988	99	998	100	70-130	1	20	mg/kg	02.03.2021 23:04	
Diesel Range Organics (DRO)	<49.9	997	921	92	929	93	70-130	1	20	mg/kg	02.03.2021 23:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	89		89		70-130	%	02.03.2021 23:04
o-Terphenyl	91		91		70-130	%	02.03.2021 23:04

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3150009 Matrix: Soil Date Prep: 02.03.2021
Parent Sample Id: 686580-001 MS Sample Id: 686580-001 S MSD Sample Id: 686580-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	833	84	846	85	70-130	2	20	mg/kg	02.03.2021 23:04	
Diesel Range Organics (DRO)	<49.9	997	899	90	933	93	70-130	4	20	mg/kg	02.03.2021 23:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	84		87		70-130	%	02.03.2021 23:04
o-Terphenyl	84		87		70-130	%	02.03.2021 23:04

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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 Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 686653

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Etech Environmental & Safety Solution, Inc

Marathon Kyle to Willow State Line

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3150325 Matrix: Soil Date Prep: 02.06.2021
Parent Sample Id: 687429-001 MS Sample Id: 687429-001 S MSD Sample Id: 687429-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	26.2	997	996	97	1030	100	70-130	3	20	mg/kg	02.06.2021 23:06	
Diesel Range Organics (DRO)	619	997	1540	92	1570	95	70-130	2	20	mg/kg	02.06.2021 23:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		100		70-130	%	02.06.2021 23:06
o-Terphenyl	100		101		70-130	%	02.06.2021 23:06

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3149683 Matrix: Solid Date Prep: 02.01.2021
MB Sample Id: 7720505-1-BLK LCS Sample Id: 7720505-1-BKS LCSD Sample Id: 7720505-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0936	94	0.0927	93	70-130	1	35	mg/kg	02.01.2021 14:00	
Toluene	<0.00200	0.100	0.0935	94	0.0936	94	70-130	0	35	mg/kg	02.01.2021 14:00	
Ethylbenzene	<0.00200	0.100	0.0971	97	0.0989	99	71-129	2	35	mg/kg	02.01.2021 14:00	
m,p-Xylenes	<0.00400	0.200	0.198	99	0.197	99	70-135	1	35	mg/kg	02.01.2021 14:00	
o-Xylene	<0.00200	0.100	0.0990	99	0.0966	97	71-133	2	35	mg/kg	02.01.2021 14:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		93		93		70-130	%	02.01.2021 14:00
4-Bromofluorobenzene	103		97		93		70-130	%	02.01.2021 14:00

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3149922 Matrix: Solid Date Prep: 02.01.2021
MB Sample Id: 7720508-1-BLK LCS Sample Id: 7720508-1-BKS LCSD Sample Id: 7720508-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0954	95	0.0890	89	70-130	7	35	mg/kg	02.02.2021 02:12	
Toluene	<0.00200	0.100	0.0961	96	0.0879	88	70-130	9	35	mg/kg	02.02.2021 02:12	
Ethylbenzene	<0.00200	0.100	0.0971	97	0.0861	86	71-129	12	35	mg/kg	02.02.2021 02:12	
m,p-Xylenes	<0.00400	0.200	0.196	98	0.170	85	70-135	14	35	mg/kg	02.02.2021 02:12	
o-Xylene	<0.00200	0.100	0.0963	96	0.0879	88	71-133	9	35	mg/kg	02.02.2021 02:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		94		96		70-130	%	02.02.2021 02:12
4-Bromofluorobenzene	96		97		93		70-130	%	02.02.2021 02:12

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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 Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 686653

eurofins | Environment Testing Xenco

Etech Environmental & Safety Solution, Inc

Marathon Kyle to Willow State Line

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3149683 Matrix: Soil Date Prep: 02.01.2021
Parent Sample Id: 686653-001 MS Sample Id: 686653-001 S MSD Sample Id: 686653-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.0969	97	70-130	8	35	mg/kg	02.01.2021 14:44	
Toluene	<0.00200	0.100	0.0980	98	0.0993	99	70-130	1	35	mg/kg	02.01.2021 14:44	
Ethylbenzene	<0.00200	0.100	0.0966	97	0.0976	98	71-129	1	35	mg/kg	02.01.2021 14:44	
m,p-Xylenes	<0.00401	0.200	0.195	98	0.199	100	70-135	2	35	mg/kg	02.01.2021 14:44	
o-Xylene	<0.00200	0.100	0.0994	99	0.0994	100	71-133	0	35	mg/kg	02.01.2021 14:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		95		70-130	%	02.01.2021 14:44
4-Bromofluorobenzene	92		101		70-130	%	02.01.2021 14:44

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3149922 Matrix: Soil Date Prep: 02.01.2021
Parent Sample Id: 686653-021 MS Sample Id: 686653-021 S MSD Sample Id: 686653-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0949	95	0.0981	98	70-130	3	35	mg/kg	02.02.2021 16:28	
Toluene	<0.00200	0.0998	0.0899	90	0.0966	97	70-130	7	35	mg/kg	02.02.2021 16:28	
Ethylbenzene	<0.00200	0.0998	0.0928	93	0.0992	99	71-129	7	35	mg/kg	02.02.2021 16:28	
m,p-Xylenes	<0.00399	0.200	0.183	92	0.201	101	70-135	9	35	mg/kg	02.02.2021 16:28	
o-Xylene	<0.00200	0.0998	0.0935	94	0.0982	98	71-133	5	35	mg/kg	02.02.2021 16:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		96		70-130	%	02.02.2021 16:28
4-Bromofluorobenzene	94		98		70-130	%	02.02.2021 16:28

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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 Spike
B = Spike Added
D = MSD/LCSD % Rec

Page 110 of 812

XENCO LABORATORIES

Chain of Custody

Work Order No: 6586653

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 www.xenco.com Page 1 of 3

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Solaris
Address:	300 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	PM@etechenviron+client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Wilbo State line	Turn Around	
Project Number:	13714	Routine	☑
Project Location	Rural Eddy County	Rush:	
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT			
Temperature (°C):	6.4/6.2	Temp Blank:	Yes (No)
Received Intact:	(Yes) No	Wet Ice:	(Yes) No
Cooler Custody Seals:	Yes (No) N/A	Thermometer ID	2-WM-007
Sample Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
		Total Containers:	23

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	BTEX	TPH	Sample Comments
	NH1 @ surface	S	1.29.21		–	1	X	X	X	
	NH1 @ 1'	S	1.29.21		@1'	1	X	X	X	
	EH1 @ surface	S	1.29.21		–	1	X	X	X	
	EH1 @ 1'	S	1.29.21		1'	1	X	X	X	
	EH2 @ surface	S	1.29.21		–	1	X	X	X	
	EH2 @ 1'	S	1.29.21		1'	1	X	X	X	
	SH1 @ surface	S	1.29.21		–	1	X	X	X	
	SH1 @ 1'	S	1.29.21		1'	1	X	X	X	
	WH1 @ surface	S	1.29.21		–	1	X	X	X	
	WH1 @ 1'	S	1.29.21		1'	1	X	X	X	

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Rae Ceft	1.29.21 1534	2		
			4		
			6		

Revised Date 022619 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM
Final 1.000
Page 61 of 67

Page 111 of 812

Chain of Custody

Work Order No: 6866653

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701
www.xenco.com

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	ETech Environmental & Safety	Company Name:	Solaris
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	PM@etechenv.com + client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow Station	Turn Around	
Project Number:	13714	Routine	☒
Project Location	Rural Eddy county	Rush:	
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID	See Page 1	
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	Chlorides	BTEX	TPH	Sample Comments
	WH2 @ surface	S	1.29.21		–	1		X	X	X	
	WH2 @ 1'	S	1.29.21		1'	1		X	X	X	
	SP1 @ surface	S	1.29.21		–	1		X	X	X	
	SP1 @ 3'	S	1.29.21		3'	1		X	X	X	
	SP2 @ surface	S	1.29.21		–	1		X	X	X	
	SP2 @ 5'	S	1.29.21		5'	1		X	X	X	
	SP3 @ surface	S	1.29.21		–	1		X	X	X	
	SP3 @ 4'	S	1.29.21		4'	1		X	X	X	
	SP4 @ surface	S	1.29.21		–	1		X	X	X	
	SP4 @ 4'	S	1.29.21		4'	1		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1.29.21 1534	2		
			4		
			6		

Revised Date 022619 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Final 1.000
Page 62 of 67
Released to Imaging: 12/1/2021 8:29:26 AM

Page 112 of 812

Chain of Custody

Work Order No: 16866653

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 www.xenco.com

Project Manager:	Joe Lowry	Bill to: (if different)	
Company Name:	ETech Environmental & Safety	Company Name:	Solaris
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	PM@etechenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to willow State Line	Turn Around	
Project Number:	13714	Routine	☑
Project Location	Rural Eddy county	Rush:	
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):		Thermometer ID	See Tracer
Received Intact:	~~Yes~~ No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Total Containers:	

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	Chlorides	BTEX	TPH	Sample Comments
	SP5@surface	S	1.29.21		-	1		X	X	X	
	SP5@5'	S	1.29.21		5'	1		X	X	X	
	FL3@8'	S	1.29.21		8'	1		X			Chlorides only!

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Ave Cuffle	1-29-21 1534			
			4		
			6		

Revised Date 022619 Rev. 2019.1

Received by OCD: 8/1/2021 12:00:14 AM
Final 1.000
Page 63 of 67
Released to Imaging: 12/1/2021 8:29:26 AM

Inter-Office Shipment

IOS Number : 77441

Date/Time:	02.01.2021	Created by:	Cloe Clifton	Please send report to:	Jessica Kramer
Lab# From:	**Carlsbad**	Delivery Priority:		Address:	1089 N Canal Street
Lab# To:	**Midland**	Air Bill No.:		E-Mail:	jessica.kramer@eurofinset.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
686653-001	S	NH 1@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-002	S	NH 1@ 1'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-003	S	EH 1@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-004	S	EH 1@ 1'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-005	S	EH 2@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-006	S	NH 2@ 1'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-007	S	SH 1@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-008	S	SH 1@ 1'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-009	S	WH 1@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-010	S	WH 1@ 1'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-011	S	WH 2@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-012	S	WH 2@ 1'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-013	S	SP 1@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-014	S	SP 1 @ 3'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-015	S	SP 2@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-016	S	SP 2 @ 5'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-017	S	SP 3@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-018	S	SP 3 @ 4'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-019	S	SP 4@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-020	S	SP 4 @ 4'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-021	S	SP 5 @ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-022	S	SP 5 @ 5'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	
686653-023	S	FL 3 @ 8'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C3	

Inter-Office Shipment

IOS Number : 77441

Date/Time:	02.01.2021	Created by:	Cloe Clifton
Lab# From:	**Carlsbad**	Delivery Priority:	
Lab# To:	**Midland**	Air Bill No.:	

Please send report to:	Jessica Kramer
Address:	1089 N Canal Street
E-Mail:	jessica.kramer@eurofinset.com

Inter Office Shipment or Sample Comments:

Relinquished By: Cloe Clifton

Date Relinquished: 02.01.2021

Received By: Jessica Kramer

Date Received: 02.02.2021

Cooler Temperature: 3.0

Environment Testing Xenco

Eurofins Xenco, LLC

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 77441

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used :

Sent By: Cloe Clifton **Date Sent:** 02.01.2021 03.49 PM

Received By: Jessica Kramer **Date Received:** 02.02.2021 12.09 PM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	3	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Jessica Kramer Date: 02.02.2021

Jessica Kramer

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 01.29.2021 03.34.00 PM

Work Order #: 686653

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	6.2	
#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?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#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**	Samples received in bulk containers.
#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)?	**Yes**	TPH sent to Midland.
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 01.29.2021

Checklist reviewed by: Jessica Kramer Date: 02.05.2021

Jessica Kramer

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Certificate of Analysis Summary 689702

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Marathon Kile To Willow State Line

Project Id: 13714
Contact: Joel Lowry
Project Location: Rural Eddy Co., NM

Date Received in Lab: Mon 03.01.2021 11:10
Report Date: 03.05.2021 12:05
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	689702-001		689702-002			
	Field Id:	SP 3 @ 13'		SP 5 @ 6'			
	Depth:	13- ft		6- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	02.25.2021 00:00		02.25.2021 00:00			
BTEX by EPA 8021B	***Extracted:***	03.02.2021 10:30		03.02.2021 10:30			
	Analyzed:	03.02.2021 14:38		03.02.2021 14:58			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		<0.00200	0.00200	<0.00198	0.00198		
Toluene		<0.00200	0.00200	<0.00198	0.00198		
Ethylbenzene		<0.00200	0.00200	<0.00198	0.00198		
m,p-Xylenes		<0.00399	0.00399	<0.00396	0.00396		
o-Xylene		<0.00200	0.00200	<0.00198	0.00198		
Total Xylenes		<0.00200	0.00200	<0.00198	0.00198		
Total BTEX		<0.00200	0.00200	<0.00198	0.00198		
Inorganic Anions by EPA 300	***Extracted:***	03.02.2021 09:15		03.02.2021 09:15			
	Analyzed:	03.02.2021 14:02		03.02.2021 14:08			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		255	49.5	114	50.5		
TPH by SW8015 Mod	***Extracted:***	** ** ** **		** ** ** **			
	Analyzed:	03.01.2021 19:04		03.01.2021 19:25			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9		
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9		
Total TPH		<50.0	50.0	<49.9	49.9		

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 689702

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry

Marathon Kile To Willow State Line

13714

03.05.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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03.05.2021

Project Manager: **Joel Lowry**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **689702**
Marathon Kile To Willow State Line
Project Address: Rural Eddy Co., NM

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 Eurofins Xenco, LLC Report Number(s) 689702. 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 Eurofins Xenco, LLC. 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. 689702 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 Eurofins Xenco, LLC 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 Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 689702

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kile To Willow State Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP 3 @ 13'	S	02.25.2021 00:00	13 ft	689702-001
SP 5 @ 6'	S	02.25.2021 00:00	6 ft	689702-002

CASE NARRATIVE

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Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Marathon Kile To Willow State Line

Project ID: *13714*
Work Order Number(s): *689702*

Report Date: *03.05.2021*
Date Received: *03.01.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3152217 TPH by SW8015 Mod

Surrogate 1-Chlorooctane recovered below QC limits Data confirmed by re-analysis. Samples affected are: 7722322-1-BLK,689702-002,689702-001.

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Certificate of Analytical Results 689702

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kile To Willow State Line

Sample Id:	**SP 3 @ 13'**	Matrix:	Soil	Date Received:	03.01.2021 11:10
Lab Sample Id:	689702-001	Date Collected:	02.25.2021 00:00	Sample Depth:	13 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.02.2021 09:15	% Moisture:	
Seq Number:	3152238			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**255**	49.5	mg/kg	03.02.2021 14:02		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.01.2021 11:00	% Moisture:	
Seq Number:	3152217			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.01.2021 19:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.01.2021 19:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.01.2021 19:04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.01.2021 19:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	66	%	70-130	03.01.2021 19:04	**
o-Terphenyl	84-15-1	92	%	70-130	03.01.2021 19:04	

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Certificate of Analytical Results 689702

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kile To Willow State Line

Sample Id:	**SP 3 @ 13'**	Matrix:	Soil	Date Received:	03.01.2021 11:10
Lab Sample Id:	689702-001	Date Collected:	02.25.2021 00:00	Sample Depth:	13 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.02.2021 10:30	% Moisture:	
Seq Number:	3152315			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.02.2021 14:38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.02.2021 14:38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.02.2021 14:38	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.02.2021 14:38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.02.2021 14:38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.02.2021 14:38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.02.2021 14:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	03.02.2021 14:38	
1,4-Difluorobenzene	540-36-3	93	%	70-130	03.02.2021 14:38	

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Certificate of Analytical Results 689702

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kile To Willow State Line

Sample Id:	**SP 5 @ 6'**	Matrix:	Soil	Date Received:	03.01.2021 11:10
Lab Sample Id:	689702-002	Date Collected:	02.25.2021 00:00	Sample Depth:	6 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.02.2021 09:15	% Moisture:	
Seq Number:	3152238			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**114**	50.5	mg/kg	03.02.2021 14:08		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.01.2021 11:00	% Moisture:	
Seq Number:	3152217			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.01.2021 19:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.01.2021 19:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.01.2021 19:25	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.01.2021 19:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	63	%	70-130	03.01.2021 19:25	**
o-Terphenyl	84-15-1	86	%	70-130	03.01.2021 19:25	

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Certificate of Analytical Results 689702

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kile To Willow State Line

Sample Id:	**SP 5 @ 6'**	Matrix:	Soil	Date Received:	03.01.2021 11:10
Lab Sample Id:	689702-002	Date Collected:	02.25.2021 00:00	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.02.2021 10:30	% Moisture:	
Seq Number:	3152315			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.02.2021 14:58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.02.2021 14:58	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.02.2021 14:58	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	03.02.2021 14:58	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.02.2021 14:58	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.02.2021 14:58	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.02.2021 14:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	03.02.2021 14:58	
4-Bromofluorobenzene	460-00-4	99	%	70-130	03.02.2021 14:58	

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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.

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. **ND** Not Detected.

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

QC Summary 689702

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Etech Environmental & Safety Solution, Inc

Marathon Kile To Willow State Line

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3152238 — Matrix: Solid — Date Prep: 03.02.2021
MB Sample Id: 7722290-1-BLK — LCS Sample Id: 7722290-1-BKS — LCSD Sample Id: 7722290-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	233	93	233	93	90-110	0	20	mg/kg	03.02.2021 10:45	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3152238 — Matrix: Soil — Date Prep: 03.02.2021
Parent Sample Id: 689670-004 — MS Sample Id: 689670-004 S — MSD Sample Id: 689670-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1240	250	1370	52	1370	52	90-110	0	20	mg/kg	03.02.2021 13:12	X

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3152238 — Matrix: Soil — Date Prep: 03.02.2021
Parent Sample Id: 689675-001 — MS Sample Id: 689675-001 S — MSD Sample Id: 689675-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.10	251	244	94	245	94	90-110	0	20	mg/kg	03.02.2021 11:45	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3152217 — Matrix: Solid — Date Prep: 03.01.2021
MB Sample Id: 7722322-1-BLK — LCS Sample Id: 7722322-1-BKS — LCSD Sample Id: 7722322-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	808	81	916	92	70-130	13	20	mg/kg	03.01.2021 11:09	
Diesel Range Organics (DRO)	<50.0	1000	810	81	831	83	70-130	3	20	mg/kg	03.01.2021 11:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	67	**	71		83		70-130	%	03.01.2021 11:09
o-Terphenyl	92		88		98		70-130	%	03.01.2021 11:09

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3152217 — Matrix: Solid — Date Prep: 03.01.2021
MB Sample Id: 7722322-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.01.2021 10:48	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 689702

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Etech Environmental & Safety Solution, Inc

Marathon Kile To Willow State Line

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3152217 Matrix: Soil Date Prep: 03.01.2021
Parent Sample Id: 689545-001 MS Sample Id: 689545-001 S MSD Sample Id: 689545-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	972	98	929	93	70-130	5	20	mg/kg	03.01.2021 12:11	
Diesel Range Organics (DRO)	<49.8	996	814	82	789	79	70-130	3	20	mg/kg	03.01.2021 12:11	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	78		77		70-130	%	03.01.2021 12:11
o-Terphenyl	90		85		70-130	%	03.01.2021 12:11

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3152315 Matrix: Solid Date Prep: 03.02.2021
MB Sample Id: 7722315-1-BLK LCS Sample Id: 7722315-1-BKS LCSD Sample Id: 7722315-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0754	75	0.0776	78	70-130	3	35	mg/kg	03.02.2021 11:55	
Toluene	<0.00200	0.100	0.0756	76	0.0781	78	70-130	3	35	mg/kg	03.02.2021 11:55	
Ethylbenzene	<0.00200	0.100	0.0859	86	0.0885	89	70-130	3	35	mg/kg	03.02.2021 11:55	
m,p-Xylenes	<0.00400	0.200	0.172	86	0.181	91	70-130	5	35	mg/kg	03.02.2021 11:55	
o-Xylene	<0.00200	0.100	0.0879	88	0.0917	92	70-130	4	35	mg/kg	03.02.2021 11:55	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		96		97		70-130	%	03.02.2021 11:55
4-Bromofluorobenzene	96		102		102		70-130	%	03.02.2021 11:55

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3152315 Matrix: Soil Date Prep: 03.02.2021
Parent Sample Id: 689702-001 MS Sample Id: 689702-001 S MSD Sample Id: 689702-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0705	71	0.0766	77	70-130	8	35	mg/kg	03.02.2021 12:58	
Toluene	<0.00199	0.0996	0.0702	70	0.0766	77	70-130	9	35	mg/kg	03.02.2021 12:58	
Ethylbenzene	<0.00199	0.0996	0.0805	81	0.0856	86	70-130	6	35	mg/kg	03.02.2021 12:58	
m,p-Xylenes	<0.00398	0.199	0.164	82	0.174	87	70-130	6	35	mg/kg	03.02.2021 12:58	
o-Xylene	<0.00199	0.0996	0.0827	83	0.0882	88	70-130	6	35	mg/kg	03.02.2021 12:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		98		70-130	%	03.02.2021 12:58
4-Bromofluorobenzene	103		101		70-130	%	03.02.2021 12:58

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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 Spike
B = Spike Added
D = MSD/LCSD % Rec

Page 129 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 689693 M
689702

www.xenco.com Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris Water Midstream C/O Rob Kirk
Company Name:	Etech Environmental and Safety	Company Name:	
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378 Email:	Email Results to: PM@etechenv.com + Client	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kile to Willow State Line	Turn Around	
Project Number:	13714	Routine:	☒
Project Location	Rural Eddy Co., NM	Rush:	☐
Sampler's Name:	Travis Hacker	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temperature (°C):	2.4 / 2.9	Temp Blank: Yes No	Wet Ice: Yes No	
Received Intact:	Yes No	Thermometer ID	IR8	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.5	
Sample Custody Seals:	Yes No N/A	Total Containers:		

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (8021)	TPH (Modified Ext.)	Cl- (E300)	Sample Comments
SP 3 @ 13'	Soil	2/25/2021		13'	1/NO	X	X	X	
SP 5 @ 6'	Soil	2/25/2021		6'	1/NO	X	X	X	

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Travis Hacker	Erpa Carrillo	2:44 2-25-21	2 Erpa Carrillo		3/1/21 1110
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM
Final 1.000
Page 13 of 15

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 03.01.2021 11.10.00 AM

Work Order #: 689702

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.9
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ 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 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 to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 03.01.2021

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 03.02.2021

Jessica Kramer

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-853-1
Laboratory Sample Delivery Group: 13714
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

JKramer

Authorized for release by:
6/30/2021 10:51:10 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Laboratory Job ID: 890-853-1
SDG: 13714

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 11
QC Sample Results 12
QC Association Summary 16
Lab Chronicle 19
Certification Summary 22
Method Summary 23
Sample Summary 24
Chain of Custody 25
Receipt Checklists 26

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Job ID: 890-853-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-853-1

Receipt
The samples were received on 6/22/2021 2:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.2°C

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: NSW #1
Lab Sample ID: 890-853-1
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 17:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 17:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 17:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/24/21 08:50	06/24/21 17:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 17:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/24/21 08:50	06/24/21 17:16	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		06/24/21 08:50	06/24/21 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*06/24/21 08:50*	*06/24/21 17:16*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*06/24/21 08:50*	*06/24/21 17:16*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 12:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 12:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 12:41	1
Total TPH	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*06/24/21 16:40*	*06/25/21 12:41*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/24/21 16:40*	*06/25/21 12:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**133**		5.03		mg/Kg			06/25/21 12:04	1

Client Sample ID: ESW #1
Lab Sample ID: 890-853-2
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 17:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 17:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 17:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 17:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 17:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 17:36	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*06/24/21 08:50*	*06/24/21 17:36*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*06/24/21 08:50*	*06/24/21 17:36*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 14:31	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: ESW #1
Lab Sample ID: 890-853-2
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 14:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 14:31	1
Total TPH	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/24/21 16:40*	*06/25/21 14:31*	*1*
o-Terphenyl	*95*		*70 - 130*	*06/24/21 16:40*	*06/25/21 14:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.8**		5.02		mg/Kg			06/25/21 12:10	1

Client Sample ID: SSW #1
Lab Sample ID: 890-853-3
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/24/21 08:50	06/24/21 17:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/24/21 08:50	06/24/21 17:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/24/21 08:50	06/24/21 17:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/24/21 08:50	06/24/21 17:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/24/21 08:50	06/24/21 17:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/24/21 08:50	06/24/21 17:56	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		06/24/21 08:50	06/24/21 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*06/24/21 08:50*	*06/24/21 17:56*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/24/21 08:50*	*06/24/21 17:56*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 14:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 14:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 14:52	1
Total TPH	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/24/21 16:40*	*06/25/21 14:52*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/24/21 16:40*	*06/25/21 14:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.2**		5.00		mg/Kg			06/25/21 12:15	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Client Sample ID: FL #1

Lab Sample ID: 890-853-4
Matrix: Solid
Date Collected: 06/22/21 08:00
Date Received: 06/22/21 14:55
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/24/21 08:50	06/24/21 18:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/24/21 08:50	06/24/21 18:17	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		06/24/21 08:50	06/24/21 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/24/21 08:50*	*06/24/21 18:17*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/24/21 08:50*	*06/24/21 18:17*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:13	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:13	1
Total TPH	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/24/21 16:40*	*06/25/21 15:13*	*1*
o-Terphenyl	*96*		*70 - 130*	*06/24/21 16:40*	*06/25/21 15:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.4**		4.98		mg/Kg			06/25/21 12:21	1

Client Sample ID: FL #2

Lab Sample ID: 890-853-5
Matrix: Solid
Date Collected: 06/22/21 08:00
Date Received: 06/22/21 14:55
Sample Depth: - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/24/21 08:50	06/24/21 18:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/24/21 08:50	06/24/21 18:37	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		06/24/21 08:50	06/24/21 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/24/21 08:50*	*06/24/21 18:37*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/24/21 08:50*	*06/24/21 18:37*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #2
Lab Sample ID: 890-853-5
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55
Sample Depth: - 6

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:34	1
Total TPH	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/24/21 16:40*	*06/25/21 15:34*	*1*
o-Terphenyl	*97*		*70 - 130*	*06/24/21 16:40*	*06/25/21 15:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.3**		4.95		mg/Kg			06/25/21 12:26	1

Client Sample ID: FL #3
Lab Sample ID: 890-853-6
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55
Sample Depth: - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 18:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 18:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 18:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 18:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 18:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 18:58	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/24/21 08:50*	*06/24/21 18:58*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/24/21 08:50*	*06/24/21 18:58*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 15:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 15:56	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 15:56	1
Total TPH	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*06/24/21 16:40*	*06/25/21 15:56*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/24/21 16:40*	*06/25/21 15:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.4**		5.01		mg/Kg			06/25/21 12:43	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #4
Lab Sample ID: 890-853-7
Date Collected: 06/22/21 12:00
Matrix: Solid
Date Received: 06/22/21 14:55
Sample Depth: - 7

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 19:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 19:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 19:18	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 19:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 19:18	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 19:18	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/24/21 08:50*	*06/24/21 19:18*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/24/21 08:50*	*06/24/21 19:18*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:16	1
Total TPH	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/24/21 16:40*	*06/25/21 16:16*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/24/21 16:40*	*06/25/21 16:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**205**		5.04		mg/Kg			06/25/21 12:48	1

Client Sample ID: FL #5
Lab Sample ID: 890-853-8
Date Collected: 06/22/21 12:00
Matrix: Solid
Date Received: 06/22/21 14:55
Sample Depth: - 7

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/24/21 08:50	06/24/21 19:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/24/21 08:50	06/24/21 19:38	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		06/24/21 08:50	06/24/21 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*06/24/21 08:50*	*06/24/21 19:38*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/24/21 08:50*	*06/24/21 19:38*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #5
Lab Sample ID: 890-853-8
Date Collected: 06/22/21 12:00
Matrix: Solid
Date Received: 06/22/21 14:55
Sample Depth: - 7

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:38	1
Total TPH	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*06/24/21 16:40*	*06/25/21 16:38*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/24/21 16:40*	*06/25/21 16:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.5**		4.95		mg/Kg			06/24/21 18:29	1

Client Sample ID: FL #6
Lab Sample ID: 890-853-9
Date Collected: 06/22/21 12:00
Matrix: Solid
Date Received: 06/22/21 14:55
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/24/21 08:50	06/24/21 19:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/24/21 08:50	06/24/21 19:59	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		06/24/21 08:50	06/24/21 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/24/21 08:50*	*06/24/21 19:59*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/24/21 08:50*	*06/24/21 19:59*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 17:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 17:20	1
Total TPH	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/24/21 16:40*	*06/25/21 17:20*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/24/21 16:40*	*06/25/21 17:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**169**		5.00		mg/Kg			06/25/21 11:39	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-853-1	NSW #1	125	106
890-853-2	ESW #1	115	108
890-853-3	SSW #1	123	103
890-853-4	FL #1	118	101
890-853-5	FL #2	120	100
890-853-6	FL #3	106	103
890-853-7	FL #4	122	96
890-853-8	FL #5	125	95
890-853-9	FL #6	117	94
LCS 880-4552/1-A	Lab Control Sample	119	109
LCSD 880-4552/2-A	Lab Control Sample Dup	110	107
MB 880-4552/5-A	Method Blank	114	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-853-1	NSW #1	99	109
890-853-1 MS	NSW #1	84	82
890-853-1 MSD	NSW #1	88	86
890-853-2	ESW #1	88	95
890-853-3	SSW #1	90	98
890-853-4	FL #1	88	96
890-853-5	FL #2	90	97
890-853-6	FL #3	91	100
890-853-7	FL #4	95	106
890-853-8	FL #5	92	101
890-853-9	FL #6	96	106
LCS 880-4602/2-A	Lab Control Sample	96	100
LCSD 880-4602/3-A	Lab Control Sample Dup	99	104
MB 880-4602/1-A	Method Blank	98	109

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4552/5-A
Matrix: Solid
Analysis Batch: 4554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 12:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 12:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 12:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/24/21 08:50	06/24/21 12:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 12:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/24/21 08:50	06/24/21 12:30	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/24/21 08:50	06/24/21 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/24/21 08:50*	*06/24/21 12:30*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/24/21 08:50*	*06/24/21 12:30*	*1*

Lab Sample ID: LCS 880-4552/1-A
Matrix: Solid
Analysis Batch: 4554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4552

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1072		mg/Kg		107	70 - 130		
Toluene			0.100	0.1007		mg/Kg		101	70 - 130		
Ethylbenzene			0.100	0.1036		mg/Kg		104	70 - 130		
m-Xylene & p-Xylene			0.200	0.2260		mg/Kg		113	70 - 130		
o-Xylene			0.100	0.1156		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-4552/2-A
Matrix: Solid
Analysis Batch: 4554

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4552

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1070		mg/Kg		107	70 - 130	0	35
Toluene			0.100	0.1007		mg/Kg		101	70 - 130	0	35
Ethylbenzene			0.100	0.1038		mg/Kg		104	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2272		mg/Kg		114	70 - 130	1	35
o-Xylene			0.100	0.1146		mg/Kg		115	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-4602/1-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 11:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 11:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 11:38	1
Total TPH	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*06/24/21 16:40*	*06/25/21 11:38*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/24/21 16:40*	*06/25/21 11:38*	*1*

Lab Sample ID: LCS 880-4602/2-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4602

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	894.5		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1034		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: LCSD 880-4602/3-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4602

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	997.5		mg/Kg		100	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1055		mg/Kg		105	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: 890-853-1 MS
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: NSW #1
Prep Type: Total/NA
Prep Batch: 4602

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	999	914.9		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U	999	899.4		mg/Kg		90	70 - 130		

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-853-1 MS
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: NSW #1
Prep Type: Total/NA
Prep Batch: 4602

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: 890-853-1 MSD
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: NSW #1
Prep Type: Total/NA
Prep Batch: 4602

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	997	991.9		mg/Kg		99	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.7	U	997	941.5		mg/Kg		94	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4512/1-A
Matrix: Solid
Analysis Batch: 4595

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/24/21 15:56	1

Lab Sample ID: LCS 880-4512/2-A
Matrix: Solid
Analysis Batch: 4595

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	249.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-4512/3-A
Matrix: Solid
Analysis Batch: 4595

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	249.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-4514/1-A
Matrix: Solid
Analysis Batch: 4598

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/24/21 20:59	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4514/2-A
Matrix: Solid
Analysis Batch: 4598

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	250.5		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-4514/3-A
Matrix: Solid
Analysis Batch: 4598

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	248.2		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-853-A-5-B MS
Matrix: Solid
Analysis Batch: 4598

Client Sample ID: 890-853-A-5-B MS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	27.37		248	281.4		mg/Kg		103	90 - 110

Lab Sample ID: 890-853-A-5-C MSD
Matrix: Solid
Analysis Batch: 4598

Client Sample ID: 890-853-A-5-C MSD
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	27.37		248	276.5		mg/Kg		101	90 - 110	2	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

GC VOA

Prep Batch: 4552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-1	NSW #1	Total/NA	Solid	5035	
890-853-2	ESW #1	Total/NA	Solid	5035	
890-853-3	SSW #1	Total/NA	Solid	5035	
890-853-4	FL #1	Total/NA	Solid	5035	
890-853-5	FL #2	Total/NA	Solid	5035	
890-853-6	FL #3	Total/NA	Solid	5035	
890-853-7	FL #4	Total/NA	Solid	5035	
890-853-8	FL #5	Total/NA	Solid	5035	
890-853-9	FL #6	Total/NA	Solid	5035	
MB 880-4552/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4552/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4552/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 4554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-1	NSW #1	Total/NA	Solid	8021B	4552
890-853-2	ESW #1	Total/NA	Solid	8021B	4552
890-853-3	SSW #1	Total/NA	Solid	8021B	4552
890-853-4	FL #1	Total/NA	Solid	8021B	4552
890-853-5	FL #2	Total/NA	Solid	8021B	4552
890-853-6	FL #3	Total/NA	Solid	8021B	4552
890-853-7	FL #4	Total/NA	Solid	8021B	4552
890-853-8	FL #5	Total/NA	Solid	8021B	4552
890-853-9	FL #6	Total/NA	Solid	8021B	4552
MB 880-4552/5-A	Method Blank	Total/NA	Solid	8021B	4552
LCS 880-4552/1-A	Lab Control Sample	Total/NA	Solid	8021B	4552
LCSD 880-4552/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4552

GC Semi VOA

Prep Batch: 4602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-1	NSW #1	Total/NA	Solid	8015NM Prep	
890-853-2	ESW #1	Total/NA	Solid	8015NM Prep	
890-853-3	SSW #1	Total/NA	Solid	8015NM Prep	
890-853-4	FL #1	Total/NA	Solid	8015NM Prep	
890-853-5	FL #2	Total/NA	Solid	8015NM Prep	
890-853-6	FL #3	Total/NA	Solid	8015NM Prep	
890-853-7	FL #4	Total/NA	Solid	8015NM Prep	
890-853-8	FL #5	Total/NA	Solid	8015NM Prep	
890-853-9	FL #6	Total/NA	Solid	8015NM Prep	
MB 880-4602/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4602/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4602/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-853-1 MS	NSW #1	Total/NA	Solid	8015NM Prep	
890-853-1 MSD	NSW #1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-1	NSW #1	Total/NA	Solid	8015B NM	4602
890-853-2	ESW #1	Total/NA	Solid	8015B NM	4602

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

GC Semi VOA (Continued)

Analysis Batch: 4609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-3	SSW #1	Total/NA	Solid	8015B NM	4602
890-853-4	FL #1	Total/NA	Solid	8015B NM	4602
890-853-5	FL #2	Total/NA	Solid	8015B NM	4602
890-853-6	FL #3	Total/NA	Solid	8015B NM	4602
890-853-7	FL #4	Total/NA	Solid	8015B NM	4602
890-853-8	FL #5	Total/NA	Solid	8015B NM	4602
890-853-9	FL #6	Total/NA	Solid	8015B NM	4602
MB 880-4602/1-A	Method Blank	Total/NA	Solid	8015B NM	4602
LCS 880-4602/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4602
LCSD 880-4602/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4602
890-853-1 MS	NSW #1	Total/NA	Solid	8015B NM	4602
890-853-1 MSD	NSW #1	Total/NA	Solid	8015B NM	4602

HPLC/IC

Leach Batch: 4512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-8	FL #5	Soluble	Solid	DI Leach	
890-853-9	FL #6	Soluble	Solid	DI Leach	
MB 880-4512/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4512/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4512/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 4514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-1	NSW #1	Soluble	Solid	DI Leach	
890-853-2	ESW #1	Soluble	Solid	DI Leach	
890-853-3	SSW #1	Soluble	Solid	DI Leach	
890-853-4	FL #1	Soluble	Solid	DI Leach	
890-853-5	FL #2	Soluble	Solid	DI Leach	
890-853-6	FL #3	Soluble	Solid	DI Leach	
890-853-7	FL #4	Soluble	Solid	DI Leach	
MB 880-4514/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4514/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4514/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-853-A-5-B MS	890-853-A-5-B MS	Soluble	Solid	DI Leach	
890-853-A-5-C MSD	890-853-A-5-C MSD	Soluble	Solid	DI Leach	

Analysis Batch: 4595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-8	FL #5	Soluble	Solid	300.0	4512
890-853-9	FL #6	Soluble	Solid	300.0	4512
MB 880-4512/1-A	Method Blank	Soluble	Solid	300.0	4512
LCS 880-4512/2-A	Lab Control Sample	Soluble	Solid	300.0	4512
LCSD 880-4512/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4512

Analysis Batch: 4598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-1	NSW #1	Soluble	Solid	300.0	4514
890-853-2	ESW #1	Soluble	Solid	300.0	4514
890-853-3	SSW #1	Soluble	Solid	300.0	4514

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

HPLC/IC (Continued)

Analysis Batch: 4598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-4	FL #1	Soluble	Solid	300.0	4514
890-853-5	FL #2	Soluble	Solid	300.0	4514
890-853-6	FL #3	Soluble	Solid	300.0	4514
890-853-7	FL #4	Soluble	Solid	300.0	4514
MB 880-4514/1-A	Method Blank	Soluble	Solid	300.0	4514
LCS 880-4514/2-A	Lab Control Sample	Soluble	Solid	300.0	4514
LCSD 880-4514/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4514
890-853-A-5-B MS	890-853-A-5-B MS	Soluble	Solid	300.0	4514
890-853-A-5-C MSD	890-853-A-5-C MSD	Soluble	Solid	300.0	4514

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Client Sample ID: NSW #1

Lab Sample ID: 890-853-1
Matrix: Solid
Date Collected: 06/22/21 08:00
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 17:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 12:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	4514	06/23/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			4598	06/25/21 12:04	CH	XEN MID

Client Sample ID: ESW #1

Lab Sample ID: 890-853-2
Matrix: Solid
Date Collected: 06/22/21 08:00
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 17:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 14:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	4514	06/23/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			4598	06/25/21 12:10	CH	XEN MID

Client Sample ID: SSW #1

Lab Sample ID: 890-853-3
Matrix: Solid
Date Collected: 06/22/21 08:00
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 17:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 14:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	4514	06/23/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			4598	06/25/21 12:15	CH	XEN MID

Client Sample ID: FL #1

Lab Sample ID: 890-853-4
Matrix: Solid
Date Collected: 06/22/21 08:00
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 18:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 15:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	4514	06/23/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			4598	06/25/21 12:21	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Client Sample ID: FL #2

Lab Sample ID: 890-853-5
Matrix: Solid
Date Collected: 06/22/21 08:00
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 18:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 15:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4514	06/23/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			4598	06/25/21 12:26	CH	XEN MID

Client Sample ID: FL #3

Lab Sample ID: 890-853-6
Matrix: Solid
Date Collected: 06/22/21 08:00
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 18:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 15:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	4514	06/23/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			4598	06/25/21 12:43	CH	XEN MID

Client Sample ID: FL #4

Lab Sample ID: 890-853-7
Matrix: Solid
Date Collected: 06/22/21 12:00
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 19:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 16:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	4514	06/23/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			4598	06/25/21 12:48	CH	XEN MID

Client Sample ID: FL #5

Lab Sample ID: 890-853-8
Matrix: Solid
Date Collected: 06/22/21 12:00
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 19:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 16:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4512	06/23/21 12:35	CH	XEN MID
Soluble	Analysis	300.0		1			4595	06/24/21 18:29	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #6
Lab Sample ID: 890-853-9
Date Collected: 06/22/21 12:00
Matrix: Solid
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 19:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 17:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	4512	06/23/21 12:35	CH	XEN MID
Soluble	Analysis	300.0		1			4595	06/25/21 11:39	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-853-1	NSW #1	Solid	06/22/21 08:00	06/22/21 14:55	
890-853-2	ESW #1	Solid	06/22/21 08:00	06/22/21 14:55	
890-853-3	SSW #1	Solid	06/22/21 08:00	06/22/21 14:55	
890-853-4	FL #1	Solid	06/22/21 08:00	06/22/21 14:55	
890-853-5	FL #2	Solid	06/22/21 08:00	06/22/21 14:55	
890-853-6	FL #3	Solid	06/22/21 08:00	06/22/21 14:55	
890-853-7	FL #4	Solid	06/22/21 12:00	06/22/21 14:55	
890-853-8	FL #5	Solid	06/22/21 12:00	06/22/21 14:55	
890-853-9	FL #6	Solid	06/22/21 12:00	06/22/21 14:55	

Page 156 of 812

Chain of Custody

XENCO LABORATORIES

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-8701
Atlanta, GA (770) 449-8800

Work Order No: 853

469-928-5626

www.xenco.com Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Leonel Mojica	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Temperature (°C):	14.4/14.2	Thermometer ID		
Received Intact:	Yes No	T-NM-007		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
NSW #1	Soil	6/22/21	8 AM		1	X	X	X	
ESW #1	Soil	6/22/21	8 AM		1	X	X	X	
SSW #1	Soil	6/22/21	8 AM		1	X	X	X	
FL #1 @ 4'	Soil	6/22/21	8 AM		1	X	X	X	
FL #2 @ 6'	Soil	6/22/21	8 AM		1	X	X	X	
FL #3 @ 6'	Soil	6/22/21	8 AM		1	X	X	X	
FL #4 @ 7'	Soil	6/22/21	12 PM		1	X	X	X	
FL #5 @ 7'	Soil	6/22/21	12 PM		1	X	X	X	
FL #6 @ 4'	Soil	6/22/21	12 PM		1	X	X	X	
[redacted]	[redacted]				[redacted]	[redacted]	[redacted]	[redacted]	

890-853 Chain of Custody

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Leonel Mojica	N. Otero	4/22/21 / 2:53	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM
6/30/2021
Page 25 of 27

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-853-1
SDG Number: 13714

Login Number: 853
List Number: 1
Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-853-1
SDG Number: 13714

Login Number: 853
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 06/24/21 12:04 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-864-1
Laboratory Sample Delivery Group: 13714
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

JKramer

Authorized for release by:
6/30/2021 10:56:09 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Laboratory Job ID: 890-864-1
SDG: 13714

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 7
QC Sample Results 8
QC Association Summary 12
Lab Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Chain of Custody 18
Receipt Checklists 19

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-864-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Job ID: 890-864-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-864-1

Receipt
The samples were received on 6/23/2021 2:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 9.0°C

Receipt Exceptions
The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SSW 32 (890-864-1) and NSW #2 C (890-864-2).

GC VOA
Method 8021B: Internal standard responses were outside of acceptance limits for the following sample: NSW #2 C (890-864-2). The sample(s) shows evidence of matrix interference.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-4647 and analytical batch 880-4608 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Client Sample ID: SSW 32

Lab Sample ID: 890-864-1
Matrix: Solid
Date Collected: 06/23/21 12:28
Date Received: 06/23/21 14:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:21	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:21	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:21	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401		mg/Kg		06/25/21 15:19	06/26/21 15:21	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:21	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		06/25/21 15:19	06/26/21 15:21	1
Total BTEX	<0.00401	U F1	0.00401		mg/Kg		06/25/21 15:19	06/26/21 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/25/21 15:19*	*06/26/21 15:21*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/25/21 15:19*	*06/26/21 15:21*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/25/21 14:16	06/26/21 00:51	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/25/21 14:16	06/26/21 00:51	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/25/21 14:16	06/26/21 00:51	1
Total TPH	<49.7	U	49.7		mg/Kg		06/25/21 14:16	06/26/21 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*06/25/21 14:16*	*06/26/21 00:51*	*1*
o-Terphenyl	*111*		*70 - 130*	*06/25/21 14:16*	*06/26/21 00:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**592**		49.5		mg/Kg			06/29/21 06:20	10

Client Sample ID: NSW #2 C

Lab Sample ID: 890-864-2
Matrix: Solid
Date Collected: 06/23/21 12:30
Date Received: 06/23/21 14:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/25/21 15:19	06/26/21 15:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/25/21 15:19	06/26/21 15:46	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		06/25/21 15:19	06/26/21 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*06/25/21 15:19*	*06/26/21 15:46*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/25/21 15:19*	*06/26/21 15:46*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/26/21 01:12	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Client Sample ID: NSW #2 C

Date Collected: 06/23/21 12:30
Date Received: 06/23/21 14:54

Lab Sample ID: 890-864-2

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/26/21 01:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/26/21 01:12	1
Total TPH	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/26/21 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*06/25/21 14:16*	*06/26/21 01:12*	*1*
o-Terphenyl	*121*		*70 - 130*	*06/25/21 14:16*	*06/26/21 01:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82.9**		4.98		mg/Kg			06/29/21 09:14	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-864-1	SSW 32	95	90
890-864-1 MS	SSW 32	79	104
890-864-1 MSD	SSW 32	88	105
890-864-2	NSW #2 C	79	89
LCS 880-4647/1-A	Lab Control Sample	86	101
LCSD 880-4647/2-A	Lab Control Sample Dup	83	102
MB 880-4593/5-A	Method Blank	58 S1-	83
MB 880-4647/5-A	Method Blank	56 S1-	84

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-864-1	SSW 32	100	111
890-864-2	NSW #2 C	108	121
LCS 880-4640/2-A	Lab Control Sample	103	100
LCSD 880-4640/3-A	Lab Control Sample Dup	98	97
MB 880-4640/1-A	Method Blank	101	113

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4593/5-A
Matrix: Solid
Analysis Batch: 4608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/21 13:24	06/26/21 01:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/21 13:24	06/26/21 01:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/21 13:24	06/26/21 01:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/24/21 13:24	06/26/21 01:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/21 13:24	06/26/21 01:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/24/21 13:24	06/26/21 01:41	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/24/21 13:24	06/26/21 01:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*58*	*S1-*	*70 - 130*	*06/24/21 13:24*	*06/26/21 01:41*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*06/24/21 13:24*	*06/26/21 01:41*	*1*

Lab Sample ID: MB 880-4647/5-A
Matrix: Solid
Analysis Batch: 4608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 14:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 14:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 14:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/25/21 15:19	06/26/21 14:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 14:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/25/21 15:19	06/26/21 14:55	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/25/21 15:19	06/26/21 14:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*56*	*S1-*	*70 - 130*	*06/25/21 15:19*	*06/26/21 14:55*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*06/25/21 15:19*	*06/26/21 14:55*	*1*

Lab Sample ID: LCS 880-4647/1-A
Matrix: Solid
Analysis Batch: 4608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08830		mg/Kg		88	70 - 130
Toluene	0.100	0.08240		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.07737		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1645		mg/Kg		82	70 - 130
o-Xylene	0.100	0.09031		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-4647/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 4608 — **Prep Batch: 4647**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08880		mg/Kg		89	70 - 130	1	35
Toluene			0.100	0.08283		mg/Kg		83	70 - 130	1	35
Ethylbenzene			0.100	0.07670		mg/Kg		77	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1626		mg/Kg		81	70 - 130	1	35
o-Xylene			0.100	0.08401		mg/Kg		84	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-864-1 MS — **Client Sample ID: SSW 32**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 4608 — **Prep Batch: 4647**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.0998	0.05368	F1	mg/Kg		54	70 - 130
Toluene	<0.00200	U F1	0.0998	0.05152	F1	mg/Kg		52	70 - 130
Ethylbenzene	<0.00200	U F1	0.0998	0.04983	F1	mg/Kg		50	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.1055	F1	mg/Kg		53	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.05650	F1	mg/Kg		57	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-864-1 MSD — **Client Sample ID: SSW 32**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 4608 — **Prep Batch: 4647**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0998	0.05777	F1	mg/Kg		58	70 - 130	7	35
Toluene	<0.00200	U F1	0.0998	0.06220	F1	mg/Kg		62	70 - 130	19	35
Ethylbenzene	<0.00200	U F1	0.0998	0.05311	F1	mg/Kg		53	70 - 130	6	35
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.1106	F1	mg/Kg		55	70 - 130	5	35
o-Xylene	<0.00200	U F1	0.0998	0.06017	F1	mg/Kg		60	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-4640/1-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/25/21 21:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/25/21 21:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/25/21 21:17	1
Total TPH	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/25/21 21:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/25/21 14:16*	*06/25/21 21:17*	*1*
o-Terphenyl	*113*		*70 - 130*	*06/25/21 14:16*	*06/25/21 21:17*	*1*

Lab Sample ID: LCS 880-4640/2-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4640

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	991.5		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1068		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: LCSD 880-4640/3-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4640

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	908.3		mg/Kg		91	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1034		mg/Kg		103	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4585/1-A
Matrix: Solid
Analysis Batch: 4717

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/29/21 05:23	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4585/2-A
Matrix: Solid
Analysis Batch: 4717

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	240.8		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-4585/3-A
Matrix: Solid
Analysis Batch: 4717

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	241.6		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

GC VOA

Prep Batch: 4593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4593/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 4608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-864-1	SSW 32	Total/NA	Solid	8021B	4647
890-864-2	NSW #2 C	Total/NA	Solid	8021B	4647
MB 880-4593/5-A	Method Blank	Total/NA	Solid	8021B	4593
MB 880-4647/5-A	Method Blank	Total/NA	Solid	8021B	4647
LCS 880-4647/1-A	Lab Control Sample	Total/NA	Solid	8021B	4647
LCSD 880-4647/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4647
890-864-1 MS	SSW 32	Total/NA	Solid	8021B	4647
890-864-1 MSD	SSW 32	Total/NA	Solid	8021B	4647

Prep Batch: 4647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-864-1	SSW 32	Total/NA	Solid	5035	
890-864-2	NSW #2 C	Total/NA	Solid	5035	
MB 880-4647/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4647/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4647/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-864-1 MS	SSW 32	Total/NA	Solid	5035	
890-864-1 MSD	SSW 32	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 4609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-864-1	SSW 32	Total/NA	Solid	8015B NM	4640
890-864-2	NSW #2 C	Total/NA	Solid	8015B NM	4640
MB 880-4640/1-A	Method Blank	Total/NA	Solid	8015B NM	4640
LCS 880-4640/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4640
LCSD 880-4640/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4640

Prep Batch: 4640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-864-1	SSW 32	Total/NA	Solid	8015NM Prep	
890-864-2	NSW #2 C	Total/NA	Solid	8015NM Prep	
MB 880-4640/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4640/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4640/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 4585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-864-1	SSW 32	Soluble	Solid	DI Leach	
890-864-2	NSW #2 C	Soluble	Solid	DI Leach	
MB 880-4585/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4585/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4585/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

HPLC/IC

Analysis Batch: 4717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-864-1	SSW 32	Soluble	Solid	300.0	4585
890-864-2	NSW #2 C	Soluble	Solid	300.0	4585
MB 880-4585/1-A	Method Blank	Soluble	Solid	300.0	4585
LCS 880-4585/2-A	Lab Control Sample	Soluble	Solid	300.0	4585
LCSD 880-4585/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4585

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-864-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: SSW 32
Lab Sample ID: 890-864-1
Date Collected: 06/23/21 12:28
Matrix: Solid
Date Received: 06/23/21 14:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	4647	06/25/21 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4608	06/26/21 15:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	4640	06/25/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/26/21 00:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4585	06/24/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		10			4717	06/29/21 06:20	CH	XEN MID

Client Sample ID: NSW #2 C
Lab Sample ID: 890-864-2
Date Collected: 06/23/21 12:30
Matrix: Solid
Date Received: 06/23/21 14:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4647	06/25/21 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4608	06/26/21 15:46	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4640	06/25/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/26/21 01:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	4585	06/24/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			4717	06/29/21 09:14	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-864-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-864-1	SSW 32	Solid	06/23/21 12:28	06/23/21 14:54	
890-864-2	NSW #2 C	Solid	06/23/21 12:30	06/23/21 14:54	

Page 176 of 812

Chain of Custody

XENCO LABORATORIES

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/O Rob Kirk (469)928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☒
Project Location		Rush:	☐
Sampler's Name:	Leonel Mojica	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	9.2/9.0	Thermometer ID	
Received Intact:	(Yes) No	IR-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
SSW #2	Soil	6/23/21	12:28 PM		1	X	X	X	
NSW #2	Soil	6/23/21	12:30 PM		1	X	X	X	

890-864 Chain of Custody

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U~~ 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Leonel Mojica	Clue Cuzo	6/23/21 1454			
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-864-1
SDG Number: 13714

Login Number: 864
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-864-1
SDG Number: 13714

Login Number: 864
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 06/25/21 11:11 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	False	
COC is filled out in ink and legible.	False	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-870-1
Laboratory Sample Delivery Group: 13714
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

JKramer

Authorized for release by:
6/30/2021 8:38:12 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Laboratory Job ID: 890-870-1
SDG: 13714

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 7
QC Sample Results 8
QC Association Summary 11
Lab Chronicle 13
Certification Summary 14
Method Summary 15
Sample Summary 16
Chain of Custody 17
Receipt Checklists 19

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-870-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Job ID: 890-870-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-870-1

Receipt
The samples were received on 6/24/2021 3:19 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 15.0°C

Receipt Exceptions
The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FL #7 @ 20' (890-870-1), FL #8 @ 20' (890-870-2) and FL #9 @ 18' (890-870-3)

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Client Sample ID: FL #7 @ 20'

Lab Sample ID: 890-870-1
Matrix: Solid
Date Collected: 06/24/21 11:30
Date Received: 06/24/21 15:19
Sample Depth: - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/28/21 14:49	06/29/21 11:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/28/21 14:49	06/29/21 11:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/28/21 14:49	06/29/21 11:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/28/21 14:49	06/29/21 11:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/28/21 14:49	06/29/21 11:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/28/21 14:49	06/29/21 11:54	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		06/28/21 14:49	06/29/21 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/28/21 14:49*	*06/29/21 11:54*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/28/21 14:49*	*06/29/21 11:54*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/28/21 14:59	06/29/21 15:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/28/21 14:59	06/29/21 15:03	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/28/21 14:59	06/29/21 15:03	1
Total TPH	<49.8	U	49.8		mg/Kg		06/28/21 14:59	06/29/21 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/28/21 14:59*	*06/29/21 15:03*	*1*
o-Terphenyl	*97*		*70 - 130*	*06/28/21 14:59*	*06/29/21 15:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.0**		4.97		mg/Kg			06/30/21 14:48	1

Client Sample ID: FL #8 @ 20'

Lab Sample ID: 890-870-2
Matrix: Solid
Date Collected: 06/24/21 11:30
Date Received: 06/24/21 15:19
Sample Depth: - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/28/21 14:49	06/29/21 12:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/28/21 14:49	06/29/21 12:15	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		06/28/21 14:49	06/29/21 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/28/21 14:49*	*06/29/21 12:15*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/28/21 14:49*	*06/29/21 12:15*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Client Sample ID: FL #8 @ 20'

Lab Sample ID: 890-870-2
Matrix: Solid
Date Collected: 06/24/21 11:30
Date Received: 06/24/21 15:19
Sample Depth: - 20

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/21 13:55	06/29/21 01:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/21 13:55	06/29/21 01:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/21 13:55	06/29/21 01:39	1
Total TPH	<49.9	U	49.9		mg/Kg		06/28/21 13:55	06/29/21 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/28/21 13:55*	*06/29/21 01:39*	*1*
o-Terphenyl	*85*		*70 - 130*	*06/28/21 13:55*	*06/29/21 01:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**179**		5.01		mg/Kg			06/30/21 14:53	1

Client Sample ID: FL #9 @ 18'

Lab Sample ID: 890-870-3
Matrix: Solid
Date Collected: 06/24/21 11:30
Date Received: 06/24/21 15:19
Sample Depth: - 18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/28/21 14:49	06/29/21 12:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:35	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/28/21 14:49	06/29/21 12:35	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		06/28/21 14:49	06/29/21 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/28/21 14:49*	*06/29/21 12:35*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/28/21 14:49*	*06/29/21 12:35*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/28/21 13:55	06/29/21 02:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/28/21 13:55	06/29/21 02:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/28/21 13:55	06/29/21 02:00	1
Total TPH	<49.8	U	49.8		mg/Kg		06/28/21 13:55	06/29/21 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/28/21 13:55*	*06/29/21 02:00*	*1*
o-Terphenyl	*108*		*70 - 130*	*06/28/21 13:55*	*06/29/21 02:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**242**		5.04		mg/Kg			06/30/21 14:58	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-870-1	FL #7 @ 20'	108	95
890-870-2	FL #8 @ 20'	119	94
890-870-3	FL #9 @ 18'	108	95
LCS 880-4708/1-A	Lab Control Sample	122	107
LCSD 880-4708/2-A	Lab Control Sample Dup	122	108
MB 880-4706/5-A	Method Blank	101	95
MB 880-4708/5-A	Method Blank	102	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-870-1	FL #7 @ 20'	95	97
890-870-2	FL #8 @ 20'	81	85
890-870-3	FL #9 @ 18'	101	108
LCS 880-4709/2-A	Lab Control Sample	100	97
LCSD 880-4709/3-A	Lab Control Sample Dup	100	96
MB 880-4709/1-A	Method Blank	93	100

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4706/5-A
Matrix: Solid
Analysis Batch: 4637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4706

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:42	06/28/21 17:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:42	06/28/21 17:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:42	06/28/21 17:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/28/21 14:42	06/28/21 17:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:42	06/28/21 17:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/28/21 14:42	06/28/21 17:54	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/28/21 14:42	06/28/21 17:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/28/21 14:42*	*06/28/21 17:54*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/28/21 14:42*	*06/28/21 17:54*	*1*

Lab Sample ID: MB 880-4708/5-A
Matrix: Solid
Analysis Batch: 4637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:49	06/29/21 04:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:49	06/29/21 04:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:49	06/29/21 04:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/28/21 14:49	06/29/21 04:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:49	06/29/21 04:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/28/21 14:49	06/29/21 04:44	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/28/21 14:49	06/29/21 04:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/28/21 14:49*	*06/29/21 04:44*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/28/21 14:49*	*06/29/21 04:44*	*1*

Lab Sample ID: LCS 880-4708/1-A
Matrix: Solid
Analysis Batch: 4637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1023		mg/Kg		102	70 - 130
Toluene	0.100	0.09737		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1001		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2164		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1122		mg/Kg		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-4708/2-A
Matrix: Solid
Analysis Batch: 4637

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4708

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1037		mg/Kg		104	70 - 130	1	35
Toluene			0.100	0.1022		mg/Kg		102	70 - 130	5	35
Ethylbenzene			0.100	0.1052		mg/Kg		105	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2299		mg/Kg		115	70 - 130	6	35
o-Xylene			0.100	0.1188		mg/Kg		119	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-4709/1-A
Matrix: Solid
Analysis Batch: 4725

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/21 14:59	06/29/21 12:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/21 14:59	06/29/21 12:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/21 14:59	06/29/21 12:16	1
Total TPH	<50.0	U	50.0		mg/Kg		06/28/21 14:59	06/29/21 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*06/28/21 14:59*	*06/29/21 12:16*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/28/21 14:59*	*06/29/21 12:16*	*1*

Lab Sample ID: LCS 880-4709/2-A
Matrix: Solid
Analysis Batch: 4725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4709

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	949.3		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	933.8		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: LCSD 880-4709/3-A
Matrix: Solid
Analysis Batch: 4725

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4709

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	935.9		mg/Kg		94	70 - 130	1	20

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-4709/3-A
Matrix: Solid
Analysis Batch: 4725

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4709

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)			1000	919.2		mg/Kg		92	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4701/1-A
Matrix: Solid
Analysis Batch: 4751

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/30/21 11:02	1

Lab Sample ID: LCS 880-4701/2-A
Matrix: Solid
Analysis Batch: 4751

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	237.3		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-4701/3-A
Matrix: Solid
Analysis Batch: 4751

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	237.6		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

GC VOA

Analysis Batch: 4637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-1	FL #7 @ 20'	Total/NA	Solid	8021B	4708
890-870-2	FL #8 @ 20'	Total/NA	Solid	8021B	4708
890-870-3	FL #9 @ 18'	Total/NA	Solid	8021B	4708
MB 880-4706/5-A	Method Blank	Total/NA	Solid	8021B	4706
MB 880-4708/5-A	Method Blank	Total/NA	Solid	8021B	4708
LCS 880-4708/1-A	Lab Control Sample	Total/NA	Solid	8021B	4708
LCSD 880-4708/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4708

Prep Batch: 4706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4706/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 4708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-1	FL #7 @ 20'	Total/NA	Solid	5035	
890-870-2	FL #8 @ 20'	Total/NA	Solid	5035	
890-870-3	FL #9 @ 18'	Total/NA	Solid	5035	
MB 880-4708/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4708/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4708/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 4696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-2	FL #8 @ 20'	Total/NA	Solid	8015B NM	4704
890-870-3	FL #9 @ 18'	Total/NA	Solid	8015B NM	4704

Prep Batch: 4704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-2	FL #8 @ 20'	Total/NA	Solid	8015NM Prep	
890-870-3	FL #9 @ 18'	Total/NA	Solid	8015NM Prep	

Prep Batch: 4709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-1	FL #7 @ 20'	Total/NA	Solid	8015NM Prep	
MB 880-4709/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4709/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4709/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-1	FL #7 @ 20'	Total/NA	Solid	8015B NM	4709
MB 880-4709/1-A	Method Blank	Total/NA	Solid	8015B NM	4709
LCS 880-4709/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4709
LCSD 880-4709/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4709

HPLC/IC

Leach Batch: 4701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-1	FL #7 @ 20'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

HPLC/IC (Continued)

Leach Batch: 4701 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-2	FL #8 @ 20'	Soluble	Solid	DI Leach	
890-870-3	FL #9 @ 18'	Soluble	Solid	DI Leach	
MB 880-4701/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4701/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4701/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 4751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-1	FL #7 @ 20'	Soluble	Solid	300.0	4701
890-870-2	FL #8 @ 20'	Soluble	Solid	300.0	4701
890-870-3	FL #9 @ 18'	Soluble	Solid	300.0	4701
MB 880-4701/1-A	Method Blank	Soluble	Solid	300.0	4701
LCS 880-4701/2-A	Lab Control Sample	Soluble	Solid	300.0	4701
LCSD 880-4701/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4701

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-870-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #7 @ 20'
Lab Sample ID: 890-870-1
Date Collected: 06/24/21 11:30
Matrix: Solid
Date Received: 06/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	4708	06/28/21 14:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4637	06/29/21 11:54	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	4709	06/28/21 14:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4725	06/29/21 15:03	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	4701	06/28/21 13:21	CH	XEN MID
Soluble	Analysis	300.0		1			4751	06/30/21 14:48	CH	XEN MID

Client Sample ID: FL #8 @ 20'
Lab Sample ID: 890-870-2
Date Collected: 06/24/21 11:30
Matrix: Solid
Date Received: 06/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4708	06/28/21 14:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4637	06/29/21 12:15	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4704	06/28/21 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4696	06/29/21 01:39	AM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	4701	06/28/21 13:21	CH	XEN MID
Soluble	Analysis	300.0		1			4751	06/30/21 14:53	CH	XEN MID

Client Sample ID: FL #9 @ 18'
Lab Sample ID: 890-870-3
Date Collected: 06/24/21 11:30
Matrix: Solid
Date Received: 06/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	4708	06/28/21 14:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4637	06/29/21 12:35	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	4704	06/28/21 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4696	06/29/21 02:00	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	4701	06/28/21 13:21	CH	XEN MID
Soluble	Analysis	300.0		1			4751	06/30/21 14:58	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-870-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-870-1	FL #7 @ 20'	Solid	06/24/21 11:30	06/24/21 15:19	- 20
890-870-2	FL #8 @ 20'	Solid	06/24/21 11:30	06/24/21 15:19	- 20
890-870-3	FL #9 @ 18'	Solid	06/24/21 11:30	06/24/21 15:19	- 18

Page 195 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/O Rob Kirk
Address:	3100 Plains Highway	Address:	(469) 928-5620
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	15.2/15.0	Thermometer ID	
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

ANALYSIS REQUEST

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
aOH: Na
aOH: Me
Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

890-870 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
FL #7 @ 20'	Soil	6/24/21	11:30 AM		1	X	X	X		
FL #8 @ 20'	Soil	6/24/21	11:30 AM		1	X	X	X		
FL #9 @ 18'	Soil	6/24/21	11:30 AM		1	X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		6-24-21 1517	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

6/30/2021

Page 196 of 812

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-279 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-870-1
Address: 1211 W Florida Ave	Due Date Requested: 6/30/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Marathon Kyle to Willow	Project #: 88000073			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8021B/8035FP_Calc Mid - BTEX	8015MOD_NM/8015NM_S_Prep Full TPH	Total Number of containers	Special Instructions/Note
			Preservation Code:								
FL #7 @ 20' (890-870-1)	6/24/21	11 30 Mountain		Solid			X	X	X	1	
FL #8 @ 20' (890-870-2)	6/24/21	11 30 Mountain		Solid			X	X	X	1	
FL #9 @ 18' (890-870-3)	6/24/21	11 30 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time:	Company	Received by	Date/Time	Company
Clae Cuts 6.25 21				6-28-21 9:00 am	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time	Company

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		

Ver 11/01/2020

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-870-1
SDG Number: 13714

Login Number: 870
List Number: 1
Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-870-1
SDG Number: 13714

Login Number: 870
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 06/28/21 09:14 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-894-1
Laboratory Sample Delivery Group: 13714
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: Joel Lowry

Chad A. Bechtold

Authorized for release by:
7/12/2021 7:35:26 PM
Chad Bechtold, Project Manager
(813)690-3563
chad.bechtold@eurofinset.com

Designee for

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Laboratory Job ID: 890-894-1
SDG: 13714

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 20
QC Sample Results 22
QC Association Summary 30
Lab Chronicle 35
Certification Summary 41
Method Summary 42
Sample Summary 43
Chain of Custody 44
Receipt Checklists 47

Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Job ID: 890-894-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-894-1

Receipt
The samples were received on 7/7/2021 11:37 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.4°C. The samples are considered acceptable since they were collected and received on the same day, and there is evidence that the cooling process had begun.

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: FL#16@10 (890-894-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: ESW#3@4'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Lab Sample ID: 890-894-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 21:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 21:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 21:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/08/21 09:34	07/08/21 21:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 21:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/08/21 09:34	07/08/21 21:48	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/08/21 09:34	07/08/21 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/08/21 09:34*	*07/08/21 21:48*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/08/21 09:34*	*07/08/21 21:48*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/08/21 10:14	07/08/21 13:51	1
Diesel Range Organics (Over C10-C28)	<49.7	U F1	49.7		mg/Kg		07/08/21 10:14	07/08/21 13:51	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/08/21 10:14	07/08/21 13:51	1
Total TPH	<49.7	U	49.7		mg/Kg		07/08/21 10:14	07/08/21 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/08/21 10:14*	*07/08/21 13:51*	*1*
o-Terphenyl	*115*		*70 - 130*	*07/08/21 10:14*	*07/08/21 13:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**127**		4.97		mg/Kg			07/08/21 17:17	1

Client Sample ID: NSW#4@4'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Lab Sample ID: 890-894-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:08	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/08/21 09:34	07/08/21 22:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:08	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/08/21 09:34	07/08/21 22:08	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/08/21 09:34	07/08/21 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/08/21 09:34*	*07/08/21 22:08*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/08/21 09:34*	*07/08/21 22:08*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: NSW#4@4'

Lab Sample ID: 890-894-2
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 14:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 14:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 14:54	1
Total TPH	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/08/21 10:14*	*07/08/21 14:54*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/08/21 10:14*	*07/08/21 14:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**254**		4.95		mg/Kg			07/08/21 17:22	1

Client Sample ID: ESW#2@3'

Lab Sample ID: 890-894-3
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:29	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/08/21 09:34	07/08/21 22:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:29	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/08/21 09:34	07/08/21 22:29	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/08/21 09:34	07/08/21 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/08/21 09:34*	*07/08/21 22:29*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/08/21 09:34*	*07/08/21 22:29*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 15:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 15:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 15:14	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*07/08/21 10:14*	*07/08/21 15:14*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/08/21 10:14*	*07/08/21 15:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**351**		5.00		mg/Kg			07/08/21 17:27	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#20@4'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Lab Sample ID: 890-894-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:34	07/08/21 22:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:34	07/08/21 22:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:34	07/08/21 22:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/08/21 09:34	07/08/21 22:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:34	07/08/21 22:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/08/21 09:34	07/08/21 22:49	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/08/21 09:34	07/08/21 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/08/21 09:34*	*07/08/21 22:49*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/08/21 09:34*	*07/08/21 22:49*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:35	1
Total TPH	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*07/08/21 10:14*	*07/08/21 15:35*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/08/21 10:14*	*07/08/21 15:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**249**		5.01		mg/Kg			07/08/21 17:32	1

Client Sample ID: SW#3@10'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 10

Lab Sample ID: 890-894-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		07/08/21 09:40	07/09/21 02:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 02:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 02:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 02:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 02:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 02:11	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/08/21 09:40*	*07/09/21 02:11*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/08/21 09:40*	*07/09/21 02:11*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: SW#3@10'

Lab Sample ID: 890-894-5
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 10

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:56	1
Total TPH	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*07/08/21 10:14*	*07/08/21 15:56*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/08/21 10:14*	*07/08/21 15:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		4.96		mg/Kg			07/09/21 11:38	1

Client Sample ID: NSW#3@4'

Lab Sample ID: 890-894-6
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/08/21 09:40	07/09/21 02:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/08/21 09:40	07/09/21 02:31	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/08/21 09:40	07/09/21 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/08/21 09:40*	*07/09/21 02:31*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/08/21 09:40*	*07/09/21 02:31*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/08/21 10:14	07/08/21 16:17	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/08/21 10:14	07/08/21 16:17	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/08/21 10:14	07/08/21 16:17	1
Total TPH	<49.7	U	49.7		mg/Kg		07/08/21 10:14	07/08/21 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*07/08/21 10:14*	*07/08/21 16:17*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*07/08/21 10:14*	*07/08/21 16:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.5**		4.98		mg/Kg			07/09/21 11:55	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: WSW#1@4'

Lab Sample ID: 890-894-7
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 02:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 02:52	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/08/21 09:40*	*07/09/21 02:52*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/08/21 09:40*	*07/09/21 02:52*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:38	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/08/21 10:14*	*07/08/21 16:38*	*1*
o-Terphenyl	*105*		*70 - 130*	*07/08/21 10:14*	*07/08/21 16:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		4.99		mg/Kg			07/09/21 12:00	1

Client Sample ID: WSW#2@4'

Lab Sample ID: 890-894-8
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 03:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 03:12	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/08/21 09:40*	*07/09/21 03:12*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/08/21 09:40*	*07/09/21 03:12*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: WSW#2@4'

Lab Sample ID: 890-894-8
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:59	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/08/21 10:14*	*07/08/21 16:59*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/08/21 10:14*	*07/08/21 16:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**151**		5.04		mg/Kg			07/09/21 12:06	1

Client Sample ID: WSW#3@4'

Lab Sample ID: 890-894-9
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:40	07/09/21 03:32	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:40	07/09/21 03:32	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:40	07/09/21 03:32	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/08/21 09:40	07/09/21 03:32	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:40	07/09/21 03:32	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/08/21 09:40	07/09/21 03:32	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/08/21 09:40	07/09/21 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/08/21 09:40*	*07/09/21 03:32*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/08/21 09:40*	*07/09/21 03:32*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:20	1
Total TPH	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/08/21 10:14*	*07/08/21 17:20*	*1*
o-Terphenyl	*120*		*70 - 130*	*07/08/21 10:14*	*07/08/21 17:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.5**		5.05		mg/Kg			07/09/21 12:11	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#21@4

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Lab Sample ID: 890-894-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 03:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 03:53	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*275*	*S1+*	*70 - 130*	*07/08/21 09:40*	*07/09/21 03:53*	*1*
1,4-Difluorobenzene (Surr)	*260*	*S1+*	*70 - 130*	*07/08/21 09:40*	*07/09/21 03:53*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:41	1
Total TPH	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*07/08/21 10:14*	*07/08/21 17:41*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*07/08/21 10:14*	*07/08/21 17:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**797**		4.97		mg/Kg			07/09/21 12:28	1

Client Sample ID: FL#10@18'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 18

Lab Sample ID: 890-894-11

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:40	07/09/21 04:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:40	07/09/21 04:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:40	07/09/21 04:13	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/08/21 09:40	07/09/21 04:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:40	07/09/21 04:13	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/08/21 09:40	07/09/21 04:13	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/08/21 09:40	07/09/21 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/08/21 09:40*	*07/09/21 04:13*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/08/21 09:40*	*07/09/21 04:13*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#10@18'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 18

Lab Sample ID: 890-894-11

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:23	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/08/21 10:14*	*07/08/21 18:23*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/08/21 10:14*	*07/08/21 18:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.3**		4.98		mg/Kg			07/09/21 12:33	1

Client Sample ID: FL#11@18'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 18

Lab Sample ID: 890-894-12

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 04:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 04:34	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*07/08/21 09:40*	*07/09/21 04:34*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/08/21 09:40*	*07/09/21 04:34*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:44	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/08/21 10:14*	*07/08/21 18:44*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/08/21 10:14*	*07/08/21 18:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**126**		4.99		mg/Kg			07/09/21 12:39	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#12@19'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 19

Lab Sample ID: 890-894-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/08/21 09:40	07/09/21 04:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/08/21 09:40	07/09/21 04:54	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/08/21 09:40	07/09/21 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/08/21 09:40*	*07/09/21 04:54*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/08/21 09:40*	*07/09/21 04:54*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 19:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 19:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 19:05	1
Total TPH	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*07/08/21 10:14*	*07/08/21 19:05*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/08/21 10:14*	*07/08/21 19:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.9**		4.95		mg/Kg			07/09/21 12:44	1

Client Sample ID: FL#13@10'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 10

Lab Sample ID: 890-894-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 05:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 05:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 05:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 05:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 05:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 05:14	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/08/21 09:40*	*07/09/21 05:14*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/08/21 09:40*	*07/09/21 05:14*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#13@10'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 10

Lab Sample ID: 890-894-14

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:26	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/08/21 10:14*	*07/08/21 19:26*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/08/21 10:14*	*07/08/21 19:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.0**		4.95		mg/Kg			07/09/21 12:50	1

Client Sample ID: FL#14@10'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 10

Lab Sample ID: 890-894-15

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:07	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:07	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:07	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		07/08/21 15:42	07/09/21 13:07	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:07	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		07/08/21 15:42	07/09/21 13:07	1
Total BTEX	<0.00399	U F2 F1	0.00399		mg/Kg		07/08/21 15:42	07/09/21 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/08/21 15:42*	*07/09/21 13:07*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/08/21 15:42*	*07/09/21 13:07*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:47	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*07/08/21 10:14*	*07/08/21 19:47*	*1*
o-Terphenyl	*104*		*70 - 130*	*07/08/21 10:14*	*07/08/21 19:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.60**		4.95		mg/Kg			07/09/21 12:55	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-894-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL#15@18'
Lab Sample ID: 890-894-16
Date Collected: 07/07/21 00:00
Matrix: Solid
Date Received: 07/07/21 11:25
Sample Depth: - 18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:28	1
Ethylbenzene	**0.00267**		0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/08/21 15:42	07/09/21 13:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/08/21 15:42	07/09/21 13:28	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/08/21 15:42	07/09/21 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/08/21 15:42*	*07/09/21 13:28*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*07/08/21 15:42*	*07/09/21 13:28*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 20:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 20:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 20:08	1
Total TPH	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*07/08/21 10:14*	*07/08/21 20:08*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/08/21 10:14*	*07/08/21 20:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.1**		5.05		mg/Kg			07/09/21 13:12	1

Client Sample ID: FL#16@10'
Lab Sample ID: 890-894-17
Date Collected: 07/07/21 00:00
Matrix: Solid
Date Received: 07/07/21 11:25
Sample Depth: - 10

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/08/21 15:42	07/09/21 13:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/08/21 15:42	07/09/21 13:48	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/08/21 15:42	07/09/21 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*07/08/21 15:42*	*07/09/21 13:48*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/08/21 15:42*	*07/09/21 13:48*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#16@10'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 10

Lab Sample ID: 890-894-17
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 20:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 20:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 20:29	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*07/08/21 10:14*	*07/08/21 20:29*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*07/08/21 10:14*	*07/08/21 20:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.2**		5.04		mg/Kg			07/09/21 13:17	1

Client Sample ID: FL#17@18'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 18

Lab Sample ID: 890-894-18
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 14:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 14:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 14:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/21 15:42	07/09/21 14:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 14:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/21 15:42	07/09/21 14:09	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/08/21 15:42	07/09/21 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/08/21 15:42*	*07/09/21 14:09*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/08/21 15:42*	*07/09/21 14:09*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 20:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 20:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 20:49	1
Total TPH	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*07/08/21 10:14*	*07/08/21 20:49*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/08/21 10:14*	*07/08/21 20:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**112**		5.02		mg/Kg			07/09/21 13:34	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#19@4'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Lab Sample ID: 890-894-19

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 14:29	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 14:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 14:29	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/08/21 15:42	07/09/21 14:29	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 14:29	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/08/21 15:42	07/09/21 14:29	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/08/21 15:42	07/09/21 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/08/21 15:42*	*07/09/21 14:29*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*07/08/21 15:42*	*07/09/21 14:29*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 21:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 21:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 21:10	1
Total TPH	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*07/08/21 10:14*	*07/08/21 21:10*	*1*
o-Terphenyl	*124*		*70 - 130*	*07/08/21 10:14*	*07/08/21 21:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**308**		4.95		mg/Kg			07/09/21 13:39	1

Client Sample ID: FL#18@16'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 16

Lab Sample ID: 890-894-20

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 14:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 14:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 14:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/21 15:42	07/09/21 14:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 14:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/21 15:42	07/09/21 14:50	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/08/21 15:42	07/09/21 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*150*	*S1+*	*70 - 130*	*07/08/21 15:42*	*07/09/21 14:50*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*07/08/21 15:42*	*07/09/21 14:50*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#18@16'

Lab Sample ID: 890-894-20
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 16

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 21:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 21:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 21:31	1
Total TPH	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/08/21 10:14*	*07/08/21 21:31*	*1*
o-Terphenyl	*116*		*70 - 130*	*07/08/21 10:14*	*07/08/21 21:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.4**		4.99		mg/Kg			07/09/21 13:45	1

Client Sample ID: FL#22@4'

Lab Sample ID: 890-894-21
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 15:11	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 15:11	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 15:11	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/08/21 15:42	07/09/21 15:11	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 15:11	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/08/21 15:42	07/09/21 15:11	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/08/21 15:42	07/09/21 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/08/21 15:42*	*07/09/21 15:11*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*07/08/21 15:42*	*07/09/21 15:11*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/08/21 10:12	07/08/21 20:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/08/21 10:12	07/08/21 20:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/08/21 10:12	07/08/21 20:29	1
Total TPH	<49.9	U	49.9		mg/Kg		07/08/21 10:12	07/08/21 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/08/21 10:12*	*07/08/21 20:29*	*1*
o-Terphenyl	*116*		*70 - 130*	*07/08/21 10:12*	*07/08/21 20:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1000**		25.0		mg/Kg			07/09/21 13:50	5

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: ESW 46@4'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Lab Sample ID: 890-894-22

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 15:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 15:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 15:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/21 15:42	07/09/21 15:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 15:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/21 15:42	07/09/21 15:31	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/08/21 15:42	07/09/21 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*07/08/21 15:42*	*07/09/21 15:31*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/08/21 15:42*	*07/09/21 15:31*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/08/21 10:12	07/08/21 20:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/08/21 10:12	07/08/21 20:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/08/21 10:12	07/08/21 20:49	1
Total TPH	<49.8	U	49.8		mg/Kg		07/08/21 10:12	07/08/21 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/08/21 10:12*	*07/08/21 20:49*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/08/21 10:12*	*07/08/21 20:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**216**		4.96		mg/Kg			07/09/21 13:56	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-894-1	ESW#3@4'	110	93
890-894-2	NSW#4@4'	112	96
890-894-3	ESW#2@3'	99	98
890-894-4	FL#20@4'	114	90
890-894-5	SW#3@10'	112	96
890-894-5 MS	SW#3@10'	120	104
890-894-5 MSD	SW#3@10'	124	105
890-894-6	NSW#3@4'	105	91
890-894-7	WSW#1@4'	107	91
890-894-8	WSW#2@4'	109	93
890-894-9	WSW#3@4'	111	100
890-894-10	FL#21@4	275 S1+	260 S1+
890-894-11	FL#10@18'	107	91
890-894-12	FL#11@18'	94	91
890-894-13	FL#12@19'	114	92
890-894-14	FL#13@10'	111	92
890-894-15	FL#14@10'	118	103
890-894-15 MS	FL#14@10'	105	105
890-894-15 MSD	FL#14@10'	112	105
890-894-16	FL#15@18'	116	120
890-894-17	FL#16@10'	117	91
890-894-18	FL#17@18'	118	103
890-894-19	FL#19@4'	118	117
890-894-20	FL#18@16'	150 S1+	126
890-894-21	FL#22@4'	108	110
890-894-22	ESW 46@4'	131 S1+	102
LCS 880-4952/1-A	Lab Control Sample	120	105
LCS 880-4954/1-A	Lab Control Sample	118	104
LCS 880-4993/1-A	Lab Control Sample	102	96
LCSD 880-4952/2-A	Lab Control Sample Dup	119	106
LCSD 880-4954/2-A	Lab Control Sample Dup	113	104
LCSD 880-4993/2-A	Lab Control Sample Dup	102	94
MB 880-4952/5-A	Method Blank	88	93
MB 880-4954/5-A	Method Blank	86	86
MB 880-4993/5-A	Method Blank	107	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-894-1	ESW#3@4'	104	115
890-894-1 MS	ESW#3@4'	110	107
890-894-1 MSD	ESW#3@4'	98	96
890-894-2	NSW#4@4'	98	112

Surrogate Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-894-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-894-3	ESW#2@3'	100	112								
890-894-4	FL#20@4'	93	102								
890-894-5	SW#3@10'	110	122								
890-894-6	NSW#3@4'	126	144 S1+								
890-894-7	WSW#1@4'	92	105								
890-894-8	WSW#2@4'	105	119								
890-894-9	WSW#3@4'	105	120								
890-894-10	FL#21@4	117	133 S1+								
890-894-11	FL#10@18'	107	119								
890-894-12	FL#11@18'	103	114								
890-894-13	FL#12@19'	89	97								
890-894-14	FL#13@10'	94	109								
890-894-15	FL#14@10'	91	104								
890-894-16	FL#15@18'	96	102								
890-894-17	FL#16@10'	114	132 S1+								
890-894-18	FL#17@18'	96	110								
890-894-19	FL#19@4'	111	124								
890-894-20	FL#18@16'	103	116								
890-894-21	FL#22@4'	98	116								
890-894-22	ESW 46@4'	98	114								
LCS 880-4956/2-A	Lab Control Sample	86	92								
LCS 880-4957/2-A	Lab Control Sample	88	85								
LCSD 880-4956/3-A	Lab Control Sample Dup	87	91								
LCSD 880-4957/3-A	Lab Control Sample Dup	86	83								
MB 880-4956/1-A	Method Blank	82	96								
MB 880-4957/1-A	Method Blank	81	83								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4952/5-A
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4952

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/08/21 09:34	07/08/21 14:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*07/08/21 09:34*	*07/08/21 14:59*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/08/21 09:34*	*07/08/21 14:59*	*1*

Lab Sample ID: LCS 880-4952/1-A
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4952

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07674		mg/Kg		77	70 - 130
Toluene	0.100	0.08101		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.09256		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.2014		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1055		mg/Kg		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-4952/2-A
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4952

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07687		mg/Kg		77	70 - 130	0	35
Toluene	0.100	0.08053		mg/Kg		81	70 - 130	1	35
Ethylbenzene	0.100	0.09233		mg/Kg		92	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2026		mg/Kg		101	70 - 130	1	35
o-Xylene	0.100	0.1066		mg/Kg		107	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-4954/5-A
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 01:49	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-4954/5-A
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 01:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 01:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 01:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 01:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 01:49	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 01:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*07/08/21 09:40*	*07/09/21 01:49*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/08/21 09:40*	*07/09/21 01:49*	*1*

Lab Sample ID: LCS 880-4954/1-A
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4954

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07656		mg/Kg		77	70 - 130		
Toluene			0.100	0.08106		mg/Kg		81	70 - 130		
Ethylbenzene			0.100	0.09187		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene			0.200	0.1968		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.1044		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-4954/2-A
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4954

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07941		mg/Kg		79	70 - 130	4	35
Toluene			0.100	0.08343		mg/Kg		83	70 - 130	3	35
Ethylbenzene			0.100	0.09367		mg/Kg		94	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2006		mg/Kg		100	70 - 130	2	35
o-Xylene			0.100	0.1069		mg/Kg		107	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-894-5 MS
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: SW#3@10'
Prep Type: Total/NA
Prep Batch: 4954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U F1	0.0998	0.06893	F1	mg/Kg		69	70 - 130		
Toluene	<0.00199	U	0.0998	0.07220		mg/Kg		72	70 - 130		

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-894-5 MS
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: SW#3@10'
Prep Type: Total/NA
Prep Batch: 4954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U	0.0998	0.07992		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1681		mg/Kg		84	70 - 130
o-Xylene	<0.00199	U	0.0998	0.08842		mg/Kg		89	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-894-5 MSD
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: SW#3@10'
Prep Type: Total/NA
Prep Batch: 4954

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0998	0.06700	F1	mg/Kg		67	70 - 130	3	35
Toluene	<0.00199	U	0.0998	0.06977		mg/Kg		70	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.0998	0.07583		mg/Kg		76	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1587		mg/Kg		79	70 - 130	6	35
o-Xylene	<0.00199	U	0.0998	0.08263		mg/Kg		83	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 880-4993/5-A
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4993

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 12:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 12:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 12:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/21 15:42	07/09/21 12:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 12:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/21 15:42	07/09/21 12:45	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/08/21 15:42	07/09/21 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/08/21 15:42*	*07/09/21 12:45*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/08/21 15:42*	*07/09/21 12:45*	*1*

Lab Sample ID: LCS 880-4993/1-A
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07440		mg/Kg		74	70 - 130
Toluene	0.100	0.07520		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.07308		mg/Kg		73	70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-4993/1-A
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	0.200	0.1421		mg/Kg		71	70 - 130
o-Xylene	0.100	0.07960		mg/Kg		80	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-4993/2-A
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4993

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07565		mg/Kg		76	70 - 130	2	35
Toluene	0.100	0.07228		mg/Kg		72	70 - 130	4	35
Ethylbenzene	0.100	0.07587		mg/Kg		76	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1431		mg/Kg		72	70 - 130	1	35
o-Xylene	0.100	0.08519		mg/Kg		85	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-894-15 MS
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: FL#14@10'
Prep Type: Total/NA
Prep Batch: 4993

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.101	0.04168	F1	mg/Kg		41	70 - 130
Toluene	<0.00200	U F1	0.101	0.05340	F1	mg/Kg		52	70 - 130
Ethylbenzene	<0.00200	U F1	0.101	0.05563	F1	mg/Kg		54	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.1001	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00200	U F1	0.101	0.05789	F1	mg/Kg		56	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-894-15 MSD
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: FL#14@10'
Prep Type: Total/NA
Prep Batch: 4993

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0994	0.05586	F1	mg/Kg		56	70 - 130	29	35
Toluene	<0.00200	U F1	0.0994	0.06398	F1	mg/Kg		63	70 - 130	18	35
Ethylbenzene	<0.00200	U F1	0.0994	0.06898	F1	mg/Kg		68	70 - 130	21	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1179	F1	mg/Kg		59	70 - 130	16	35
o-Xylene	<0.00200	U F1	0.0994	0.07656		mg/Kg		76	70 - 130	28	35

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-894-15 MSD
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: FL#14@10'
Prep Type: Total/NA
Prep Batch: 4993

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-4956/1-A
Matrix: Solid
Analysis Batch: 4958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4956

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 12:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 12:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 12:47	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 12:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	07/08/21 10:12	07/08/21 12:47	1
o-Terphenyl	96		70 - 130	07/08/21 10:12	07/08/21 12:47	1

Lab Sample ID: LCS 880-4956/2-A
Matrix: Solid
Analysis Batch: 4958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4956

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	969.1		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1044		mg/Kg		104	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-4956/3-A
Matrix: Solid
Analysis Batch: 4958

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4956

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1089		mg/Kg		109	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1052		mg/Kg		105	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	91		70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-4957/1-A
Matrix: Solid
Analysis Batch: 4960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 12:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 12:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 12:47	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 12:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/08/21 10:14*	*07/08/21 12:47*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/08/21 10:14*	*07/08/21 12:47*	*1*

Lab Sample ID: LCS 880-4957/2-A
Matrix: Solid
Analysis Batch: 4960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	949.4		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1010		mg/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: LCSD 880-4957/3-A
Matrix: Solid
Analysis Batch: 4960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4957

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	949.8		mg/Kg		95	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1014		mg/Kg		101	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: 890-894-1 MS
Matrix: Solid
Analysis Batch: 4960

Client Sample ID: ESW#3@4'
Prep Type: Total/NA
Prep Batch: 4957

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	999	1188		mg/Kg		116	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U F1	999	1410	F1	mg/Kg		138	70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-894-1 MS
Matrix: Solid
Analysis Batch: 4960

Client Sample ID: ESW#3@4'
Prep Type: Total/NA
Prep Batch: 4957

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: 890-894-1 MSD
Matrix: Solid
Analysis Batch: 4960

Client Sample ID: ESW#3@4'
Prep Type: Total/NA
Prep Batch: 4957

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	997	1117		mg/Kg		109	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.7	U F1	997	1259		mg/Kg		123	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4976/1-A
Matrix: Solid
Analysis Batch: 4984

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/08/21 15:05	1

Lab Sample ID: LCS 880-4976/2-A
Matrix: Solid
Analysis Batch: 4984

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	238.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-4976/3-A
Matrix: Solid
Analysis Batch: 4984

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	239.5		mg/Kg		96	90 - 110	0	20

Lab Sample ID: MB 880-4977/1-A
Matrix: Solid
Analysis Batch: 5000

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/09/21 11:22	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4977/2-A
Matrix: Solid
Analysis Batch: 5000

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	250.4		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-4977/3-A
Matrix: Solid
Analysis Batch: 5000

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	250.2		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-894-5 MS
Matrix: Solid
Analysis Batch: 5000

Client Sample ID: SW#3@10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	108		248	368.9		mg/Kg		105	90 - 110		

Lab Sample ID: 890-894-5 MSD
Matrix: Solid
Analysis Batch: 5000

Client Sample ID: SW#3@10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	108		248	367.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-894-15 MS
Matrix: Solid
Analysis Batch: 5000

Client Sample ID: FL#14@10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	8.60		248	273.8		mg/Kg		107	90 - 110		

Lab Sample ID: 890-894-15 MSD
Matrix: Solid
Analysis Batch: 5000

Client Sample ID: FL#14@10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.60		248	271.8		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

GC VOA

Prep Batch: 4952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-1	ESW#3@4'	Total/NA	Solid	5035	
890-894-2	NSW#4@4'	Total/NA	Solid	5035	
890-894-3	ESW#2@3'	Total/NA	Solid	5035	
890-894-4	FL#20@4'	Total/NA	Solid	5035	
MB 880-4952/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4952/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4952/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 4954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-5	SW#3@10'	Total/NA	Solid	5035	
890-894-6	NSW#3@4'	Total/NA	Solid	5035	
890-894-7	WSW#1@4'	Total/NA	Solid	5035	
890-894-8	WSW#2@4'	Total/NA	Solid	5035	
890-894-9	WSW#3@4'	Total/NA	Solid	5035	
890-894-10	FL#21@4	Total/NA	Solid	5035	
890-894-11	FL#10@18'	Total/NA	Solid	5035	
890-894-12	FL#11@18'	Total/NA	Solid	5035	
890-894-13	FL#12@19'	Total/NA	Solid	5035	
890-894-14	FL#13@10'	Total/NA	Solid	5035	
MB 880-4954/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4954/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4954/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-894-5 MS	SW#3@10'	Total/NA	Solid	5035	
890-894-5 MSD	SW#3@10'	Total/NA	Solid	5035	

Analysis Batch: 4964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-1	ESW#3@4'	Total/NA	Solid	8021B	4952
890-894-2	NSW#4@4'	Total/NA	Solid	8021B	4952
890-894-3	ESW#2@3'	Total/NA	Solid	8021B	4952
890-894-4	FL#20@4'	Total/NA	Solid	8021B	4952
890-894-5	SW#3@10'	Total/NA	Solid	8021B	4954
890-894-6	NSW#3@4'	Total/NA	Solid	8021B	4954
890-894-7	WSW#1@4'	Total/NA	Solid	8021B	4954
890-894-8	WSW#2@4'	Total/NA	Solid	8021B	4954
890-894-9	WSW#3@4'	Total/NA	Solid	8021B	4954
890-894-10	FL#21@4	Total/NA	Solid	8021B	4954
890-894-11	FL#10@18'	Total/NA	Solid	8021B	4954
890-894-12	FL#11@18'	Total/NA	Solid	8021B	4954
890-894-13	FL#12@19'	Total/NA	Solid	8021B	4954
890-894-14	FL#13@10'	Total/NA	Solid	8021B	4954
MB 880-4952/5-A	Method Blank	Total/NA	Solid	8021B	4952
MB 880-4954/5-A	Method Blank	Total/NA	Solid	8021B	4954
LCS 880-4952/1-A	Lab Control Sample	Total/NA	Solid	8021B	4952
LCS 880-4954/1-A	Lab Control Sample	Total/NA	Solid	8021B	4954
LCSD 880-4952/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4952
LCSD 880-4954/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4954
890-894-5 MS	SW#3@10'	Total/NA	Solid	8021B	4954
890-894-5 MSD	SW#3@10'	Total/NA	Solid	8021B	4954

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

GC VOA

Prep Batch: 4993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-15	FL#14@10'	Total/NA	Solid	5035	
890-894-16	FL#15@18'	Total/NA	Solid	5035	
890-894-17	FL#16@10'	Total/NA	Solid	5035	
890-894-18	FL#17@18'	Total/NA	Solid	5035	
890-894-19	FL#19@4'	Total/NA	Solid	5035	
890-894-20	FL#18@16'	Total/NA	Solid	5035	
890-894-21	FL#22@4'	Total/NA	Solid	5035	
890-894-22	ESW 46@4'	Total/NA	Solid	5035	
MB 880-4993/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4993/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4993/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-894-15 MS	FL#14@10'	Total/NA	Solid	5035	
890-894-15 MSD	FL#14@10'	Total/NA	Solid	5035	

Analysis Batch: 5006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-15	FL#14@10'	Total/NA	Solid	8021B	4993
890-894-16	FL#15@18'	Total/NA	Solid	8021B	4993
890-894-17	FL#16@10'	Total/NA	Solid	8021B	4993
890-894-18	FL#17@18'	Total/NA	Solid	8021B	4993
890-894-19	FL#19@4'	Total/NA	Solid	8021B	4993
890-894-20	FL#18@16'	Total/NA	Solid	8021B	4993
890-894-21	FL#22@4'	Total/NA	Solid	8021B	4993
890-894-22	ESW 46@4'	Total/NA	Solid	8021B	4993
MB 880-4993/5-A	Method Blank	Total/NA	Solid	8021B	4993
LCS 880-4993/1-A	Lab Control Sample	Total/NA	Solid	8021B	4993
LCSD 880-4993/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4993
890-894-15 MS	FL#14@10'	Total/NA	Solid	8021B	4993
890-894-15 MSD	FL#14@10'	Total/NA	Solid	8021B	4993

GC Semi VOA

Prep Batch: 4956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-21	FL#22@4'	Total/NA	Solid	8015NM Prep	
890-894-22	ESW 46@4'	Total/NA	Solid	8015NM Prep	
MB 880-4956/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4956/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 4957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-1	ESW#3@4'	Total/NA	Solid	8015NM Prep	
890-894-2	NSW#4@4'	Total/NA	Solid	8015NM Prep	
890-894-3	ESW#2@3'	Total/NA	Solid	8015NM Prep	
890-894-4	FL#20@4'	Total/NA	Solid	8015NM Prep	
890-894-5	SW#3@10'	Total/NA	Solid	8015NM Prep	
890-894-6	NSW#3@4'	Total/NA	Solid	8015NM Prep	
890-894-7	WSW#1@4'	Total/NA	Solid	8015NM Prep	
890-894-8	WSW#2@4'	Total/NA	Solid	8015NM Prep	
890-894-9	WSW#3@4'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

GC Semi VOA (Continued)

Prep Batch: 4957 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-10	FL#21@4	Total/NA	Solid	8015NM Prep	
890-894-11	FL#10@18'	Total/NA	Solid	8015NM Prep	
890-894-12	FL#11@18'	Total/NA	Solid	8015NM Prep	
890-894-13	FL#12@19'	Total/NA	Solid	8015NM Prep	
890-894-14	FL#13@10'	Total/NA	Solid	8015NM Prep	
890-894-15	FL#14@10'	Total/NA	Solid	8015NM Prep	
890-894-16	FL#15@18'	Total/NA	Solid	8015NM Prep	
890-894-17	FL#16@10'	Total/NA	Solid	8015NM Prep	
890-894-18	FL#17@18'	Total/NA	Solid	8015NM Prep	
890-894-19	FL#19@4'	Total/NA	Solid	8015NM Prep	
890-894-20	FL#18@16'	Total/NA	Solid	8015NM Prep	
MB 880-4957/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4957/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-894-1 MS	ESW#3@4'	Total/NA	Solid	8015NM Prep	
890-894-1 MSD	ESW#3@4'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-21	FL#22@4'	Total/NA	Solid	8015B NM	4956
890-894-22	ESW 46@4'	Total/NA	Solid	8015B NM	4956
MB 880-4956/1-A	Method Blank	Total/NA	Solid	8015B NM	4956
LCS 880-4956/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4956
LCSD 880-4956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4956

Analysis Batch: 4960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-1	ESW#3@4'	Total/NA	Solid	8015B NM	4957
890-894-2	NSW#4@4'	Total/NA	Solid	8015B NM	4957
890-894-3	ESW#2@3'	Total/NA	Solid	8015B NM	4957
890-894-4	FL#20@4'	Total/NA	Solid	8015B NM	4957
890-894-5	SW#3@10'	Total/NA	Solid	8015B NM	4957
890-894-6	NSW#3@4'	Total/NA	Solid	8015B NM	4957
890-894-7	WSW#1@4'	Total/NA	Solid	8015B NM	4957
890-894-8	WSW#2@4'	Total/NA	Solid	8015B NM	4957
890-894-9	WSW#3@4'	Total/NA	Solid	8015B NM	4957
890-894-10	FL#21@4	Total/NA	Solid	8015B NM	4957
890-894-11	FL#10@18'	Total/NA	Solid	8015B NM	4957
890-894-12	FL#11@18'	Total/NA	Solid	8015B NM	4957
890-894-13	FL#12@19'	Total/NA	Solid	8015B NM	4957
890-894-14	FL#13@10'	Total/NA	Solid	8015B NM	4957
890-894-15	FL#14@10'	Total/NA	Solid	8015B NM	4957
890-894-16	FL#15@18'	Total/NA	Solid	8015B NM	4957
890-894-17	FL#16@10'	Total/NA	Solid	8015B NM	4957
890-894-18	FL#17@18'	Total/NA	Solid	8015B NM	4957
890-894-19	FL#19@4'	Total/NA	Solid	8015B NM	4957
890-894-20	FL#18@16'	Total/NA	Solid	8015B NM	4957
MB 880-4957/1-A	Method Blank	Total/NA	Solid	8015B NM	4957
LCS 880-4957/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4957
LCSD 880-4957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4957
890-894-1 MS	ESW#3@4'	Total/NA	Solid	8015B NM	4957

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

GC Semi VOA (Continued)

Analysis Batch: 4960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-1 MSD	ESW#3@4'	Total/NA	Solid	8015B NM	4957

HPLC/IC

Leach Batch: 4976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-1	ESW#3@4'	Soluble	Solid	DI Leach	
890-894-2	NSW#4@4'	Soluble	Solid	DI Leach	
890-894-3	ESW#2@3'	Soluble	Solid	DI Leach	
890-894-4	FL#20@4'	Soluble	Solid	DI Leach	
MB 880-4976/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4976/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4976/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 4977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-5	SW#3@10'	Soluble	Solid	DI Leach	
890-894-6	NSW#3@4'	Soluble	Solid	DI Leach	
890-894-7	WSW#1@4'	Soluble	Solid	DI Leach	
890-894-8	WSW#2@4'	Soluble	Solid	DI Leach	
890-894-9	WSW#3@4'	Soluble	Solid	DI Leach	
890-894-10	FL#21@4	Soluble	Solid	DI Leach	
890-894-11	FL#10@18'	Soluble	Solid	DI Leach	
890-894-12	FL#11@18'	Soluble	Solid	DI Leach	
890-894-13	FL#12@19'	Soluble	Solid	DI Leach	
890-894-14	FL#13@10'	Soluble	Solid	DI Leach	
890-894-15	FL#14@10'	Soluble	Solid	DI Leach	
890-894-16	FL#15@18'	Soluble	Solid	DI Leach	
890-894-17	FL#16@10'	Soluble	Solid	DI Leach	
890-894-18	FL#17@18'	Soluble	Solid	DI Leach	
890-894-19	FL#19@4'	Soluble	Solid	DI Leach	
890-894-20	FL#18@16'	Soluble	Solid	DI Leach	
890-894-21	FL#22@4'	Soluble	Solid	DI Leach	
890-894-22	ESW 46@4'	Soluble	Solid	DI Leach	
MB 880-4977/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4977/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4977/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-894-5 MS	SW#3@10'	Soluble	Solid	DI Leach	
890-894-5 MSD	SW#3@10'	Soluble	Solid	DI Leach	
890-894-15 MS	FL#14@10'	Soluble	Solid	DI Leach	
890-894-15 MSD	FL#14@10'	Soluble	Solid	DI Leach	

Analysis Batch: 4984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-1	ESW#3@4'	Soluble	Solid	300.0	4976
890-894-2	NSW#4@4'	Soluble	Solid	300.0	4976
890-894-3	ESW#2@3'	Soluble	Solid	300.0	4976
890-894-4	FL#20@4'	Soluble	Solid	300.0	4976
MB 880-4976/1-A	Method Blank	Soluble	Solid	300.0	4976
LCS 880-4976/2-A	Lab Control Sample	Soluble	Solid	300.0	4976
LCSD 880-4976/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4976

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

HPLC/IC

Analysis Batch: 5000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-5	SW#3@10'	Soluble	Solid	300.0	4977
890-894-6	NSW#3@4'	Soluble	Solid	300.0	4977
890-894-7	WSW#1@4'	Soluble	Solid	300.0	4977
890-894-8	WSW#2@4'	Soluble	Solid	300.0	4977
890-894-9	WSW#3@4'	Soluble	Solid	300.0	4977
890-894-10	FL#21@4	Soluble	Solid	300.0	4977
890-894-11	FL#10@18'	Soluble	Solid	300.0	4977
890-894-12	FL#11@18'	Soluble	Solid	300.0	4977
890-894-13	FL#12@19'	Soluble	Solid	300.0	4977
890-894-14	FL#13@10'	Soluble	Solid	300.0	4977
890-894-15	FL#14@10'	Soluble	Solid	300.0	4977
890-894-16	FL#15@18'	Soluble	Solid	300.0	4977
890-894-17	FL#16@10'	Soluble	Solid	300.0	4977
890-894-18	FL#17@18'	Soluble	Solid	300.0	4977
890-894-19	FL#19@4'	Soluble	Solid	300.0	4977
890-894-20	FL#18@16'	Soluble	Solid	300.0	4977
890-894-21	FL#22@4'	Soluble	Solid	300.0	4977
890-894-22	ESW 46@4'	Soluble	Solid	300.0	4977
MB 880-4977/1-A	Method Blank	Soluble	Solid	300.0	4977
LCS 880-4977/2-A	Lab Control Sample	Soluble	Solid	300.0	4977
LCSD 880-4977/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4977
890-894-5 MS	SW#3@10'	Soluble	Solid	300.0	4977
890-894-5 MSD	SW#3@10'	Soluble	Solid	300.0	4977
890-894-15 MS	FL#14@10'	Soluble	Solid	300.0	4977
890-894-15 MSD	FL#14@10'	Soluble	Solid	300.0	4977

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: ESW#3@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/08/21 21:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 13:51	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			4984	07/08/21 17:17	CH	XEN MID

Client Sample ID: NSW#4@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/08/21 22:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 14:54	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			4984	07/08/21 17:22	CH	XEN MID

Client Sample ID: ESW#2@3'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/08/21 22:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 15:14	AM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			4984	07/08/21 17:27	CH	XEN MID

Client Sample ID: FL#20@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/08/21 22:49	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 15:35	AM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			4984	07/08/21 17:32	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: SW#3@10'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 02:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 15:56	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 11:38	CH	XEN MID

Client Sample ID: NSW#3@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 02:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 16:17	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 11:55	CH	XEN MID

Client Sample ID: WSW#1@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 02:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 16:38	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:00	CH	XEN MID

Client Sample ID: WSW#2@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 03:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 16:59	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:06	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: WSW#3@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 03:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 17:20	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:11	CH	XEN MID

Client Sample ID: FL#21@4
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 03:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 17:41	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:28	CH	XEN MID

Client Sample ID: FL#10@18'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 04:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 18:23	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:33	CH	XEN MID

Client Sample ID: FL#11@18'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 04:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 18:44	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:39	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#12@19'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 04:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 19:05	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:44	CH	XEN MID

Client Sample ID: FL#13@10'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 05:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 19:26	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:50	CH	XEN MID

Client Sample ID: FL#14@10'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 13:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 19:47	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:55	CH	XEN MID

Client Sample ID: FL#15@18'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 13:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 20:08	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 13:12	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#16@10'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 13:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 20:29	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 13:17	CH	XEN MID

Client Sample ID: FL#17@18'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 14:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 20:49	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 13:34	CH	XEN MID

Client Sample ID: FL#19@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 14:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 21:10	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 13:39	CH	XEN MID

Client Sample ID: FL#18@16'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 14:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 21:31	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 13:45	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#22@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 15:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4958	07/08/21 20:29	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		5			5000	07/09/21 13:50	CH	XEN MID

Client Sample ID: ESW 46@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 15:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4958	07/08/21 20:49	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 13:56	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-894-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-894-1	ESW#3@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-2	NSW#4@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-3	ESW#2@3'	Solid	07/07/21 00:00	07/07/21 11:25	- 3
890-894-4	FL#20@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-5	SW#3@10'	Solid	07/07/21 00:00	07/07/21 11:25	- 10
890-894-6	NSW#3@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-7	WSW#1@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-8	WSW#2@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-9	WSW#3@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-10	FL#21@4	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-11	FL#10@18'	Solid	07/07/21 00:00	07/07/21 11:25	- 18
890-894-12	FL#11@18'	Solid	07/07/21 00:00	07/07/21 11:25	- 18
890-894-13	FL#12@19'	Solid	07/07/21 00:00	07/07/21 11:25	- 19
890-894-14	FL#13@10'	Solid	07/07/21 00:00	07/07/21 11:25	- 10
890-894-15	FL#14@10'	Solid	07/07/21 00:00	07/07/21 11:25	- 10
890-894-16	FL#15@18'	Solid	07/07/21 00:00	07/07/21 11:25	- 18
890-894-17	FL#16@10'	Solid	07/07/21 00:00	07/07/21 11:25	- 10
890-894-18	FL#17@18'	Solid	07/07/21 00:00	07/07/21 11:25	- 18
890-894-19	FL#19@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-20	FL#18@16'	Solid	07/07/21 00:00	07/07/21 11:25	- 16
890-894-21	FL#22@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-22	ESW 46@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4

Page 242 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Page 1 of 3

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	7.6/7.4	Thermometer ID	
Received Intact:	(Yes) No	T-NM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

890-894 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
ESW#3 @ 4'		7/7/21			1	X	X	X		
NSW#4@4'		7-7-21			1	X	X	X		
ESW#2@3'		7-7-21			1	X	X	X		
FL#20@4'		7-7-21			1	X	X	X		
SW#3@10		7-7-21			1	X	X	X		
NSW#3@4'		7-7-21			1	X	X	X		
WSW#1@4'		7-7-21			1	X	X	X		
WSW#2@4'		7-7-21			1	X	X	X		
WSW#3@4'		7-7-21			1	X	X	X		
~~WSW#~~ FL#2 1@4'		7-7-21			1	X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7-7-21 10:40	2		
3		7/7/21 11:25	4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Page 243 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-8701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☑
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13914	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	7.6/7.4	Thermometer ID	
Received Intact:	(Yes) No	T-NM-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
FL # 10 @ 18'	Soil	7-7-21			1	X	X	X		
FL # 11 @ 18'	Soil	7-7-21			1	X	X	X		
FL # 12 @ 19'	Soil	7-7-21			1	X	X	X		
FL # 13 @ 10'	Soil	7-7-21			1	X	X	X		
FL # 14 @ 10'	Soil	7-7-21			1	X	X	X		
FL # 15 @ 18'	Soil	7-7-21			1	X	X	X		
FL # 16 @ 10'	Soil	7-7-21			1	X	X	X		
FL # 17 @ 18'	Soil	7-7-21			1	X	X	X		
FL # 19 @ 4'	Soil	7-7-21			1	X	X	X		
FL # 18 @ 16'	Soil	7-7-21			1	X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7-7-21/10:00	2		
3		7/7/21	4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM
7/12/2021
Page 45 of 48

Page 244 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Page 3 of 3

Project Manager:	Joel Lowry	Bill to: (if different)	Sobriety
Company Name:	Etech Environmental & Safety	Company Name:	Sobriety
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle Gwilliam	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	7.6 / 7.4	Thermometer ID		
Received Intact:	(Yes) No	TNM-007		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
FL #2 at 4'		7-7-21			1	X	X	X	
ESW 46 at 4'		7-7-21			1	X	X	X	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7-7-21 · 10:46	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Page 46 of 48
7/12/2021
Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-894-1
SDG Number: 13714

Login Number: 894
List Number: 1
Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-894-1
SDG Number: 13714

Login Number: 894
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 07/08/21 11:34 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-911-1
Laboratory Sample Delivery Group: 13714
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

JKramer

Authorized for release by:
7/15/2021 2:35:55 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Laboratory Job ID: 890-911-1
SDG: 13714

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 9
QC Sample Results 10
QC Association Summary 14
Lab Chronicle 16
Certification Summary 18
Method Summary 19
Sample Summary 20
Chain of Custody 21
Receipt Checklists 23

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-911-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Job ID: 890-911-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-911-1

Receipt
The samples were received on 7/8/2021 3:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 23.6°C

Receipt Exceptions
The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FL # 24 @ 5 (890-911-1), FL #23 @4 (890-911-2), FL #26 @ 4 (890-911-3), WSW #6 @4 (890-911-4) and ESW #5 @5 (890-911-5).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Released to Imaging: 12/1/2021 8:29:26 AM

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Client Sample ID: FL # 24 @ 5

Date Collected: 07/08/21 14:30
Date Received: 07/08/21 15:32

Lab Sample ID: 890-911-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		07/10/21 10:35	07/11/21 17:30	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		07/10/21 10:35	07/11/21 17:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/10/21 10:35	07/11/21 17:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/10/21 10:35	07/11/21 17:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/10/21 10:35	07/11/21 17:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/10/21 10:35	07/11/21 17:30	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/10/21 10:35	07/11/21 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*07/10/21 10:35*	*07/11/21 17:30*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/10/21 10:35*	*07/11/21 17:30*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:36	1
Total TPH	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/12/21 10:12*	*07/13/21 03:36*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/12/21 10:12*	*07/13/21 03:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**153**		5.04		mg/Kg			07/14/21 20:07	1

Client Sample ID: FL #23 @4

Date Collected: 07/08/21 14:30
Date Received: 07/08/21 15:32

Lab Sample ID: 890-911-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/10/21 10:35	07/11/21 17:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/10/21 10:35	07/11/21 17:50	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/10/21 10:35	07/11/21 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/10/21 10:35*	*07/11/21 17:50*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/10/21 10:35*	*07/11/21 17:50*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:57	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Client Sample ID: FL #23 @4

Date Collected: 07/08/21 14:30
Date Received: 07/08/21 15:32

Lab Sample ID: 890-911-2

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:57	1
Total TPH	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/12/21 10:12*	*07/13/21 03:57*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/12/21 10:12*	*07/13/21 03:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.9**		4.97		mg/Kg			07/14/21 20:24	1

Client Sample ID: FL #26 @ 4

Date Collected: 07/08/21 14:30
Date Received: 07/08/21 15:32

Lab Sample ID: 890-911-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/10/21 10:35	07/11/21 18:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/10/21 10:35	07/11/21 18:11	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/10/21 10:35	07/11/21 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/10/21 10:35*	*07/11/21 18:11*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/10/21 10:35*	*07/11/21 18:11*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:19	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:19	1
Total TPH	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*07/12/21 10:12*	*07/13/21 04:19*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/12/21 10:12*	*07/13/21 04:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**371**		4.99		mg/Kg			07/14/21 20:29	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-911-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: WSW #6 @4
Lab Sample ID: 890-911-4
Date Collected: 07/08/21 14:30
Matrix: Solid
Date Received: 07/08/21 15:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/10/21 10:35	07/11/21 18:31	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/10/21 10:35	07/11/21 18:31	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/10/21 10:35	07/11/21 18:31	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/10/21 10:35	07/11/21 18:31	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/10/21 10:35	07/11/21 18:31	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/10/21 10:35	07/11/21 18:31	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/10/21 10:35	07/11/21 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/10/21 10:35*	*07/11/21 18:31*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/10/21 10:35*	*07/11/21 18:31*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:40	1
Total TPH	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*07/12/21 10:12*	*07/13/21 04:40*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/12/21 10:12*	*07/13/21 04:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**282**		5.04		mg/Kg			07/14/21 20:34	1

Client Sample ID: ESW #5 @5
Lab Sample ID: 890-911-5
Date Collected: 07/08/21 14:30
Matrix: Solid
Date Received: 07/08/21 15:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/10/21 10:35	07/11/21 18:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/10/21 10:35	07/11/21 18:52	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/10/21 10:35	07/11/21 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/10/21 10:35*	*07/11/21 18:52*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/10/21 10:35*	*07/11/21 18:52*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 05:01	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-911-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: ESW #5 @5
Lab Sample ID: 890-911-5
Date Collected: 07/08/21 14:30
Matrix: Solid
Date Received: 07/08/21 15:32

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 05:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 05:01	1
Total TPH	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 05:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/12/21 10:12*	*07/13/21 05:01*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/12/21 10:12*	*07/13/21 05:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.3**		5.02		mg/Kg			07/14/21 20:40	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-911-1	FL # 24 @ 5	100	100
890-911-1 MS	FL # 24 @ 5	115	104
890-911-1 MSD	FL # 24 @ 5	111	104
890-911-2	FL #23 @4	103	91
890-911-3	FL #26 @ 4	107	95
890-911-4	WSW #6 @4	96	99
890-911-5	ESW #5 @5	110	92
LCS 880-5016/1-A	Lab Control Sample	131 S1+	118
LCSD 880-5016/2-A	Lab Control Sample Dup	134 S1+	123
MB 880-5016/5-A	Method Blank	89	91
MB 880-5043/5-A	Method Blank	117	84

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-911-1	FL # 24 @ 5	97	108
890-911-2	FL #23 @4	97	109
890-911-3	FL #26 @ 4	95	107
890-911-4	WSW #6 @4	99	111
890-911-5	ESW #5 @5	98	111
LCS 880-5077/2-A	Lab Control Sample	93	99
LCSD 880-5077/3-A	Lab Control Sample Dup	83	88
MB 880-5077/1-A	Method Blank	93	105

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5016/5-A
Matrix: Solid
Analysis Batch: 5061

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/10/21 10:35	07/11/21 17:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/10/21 10:35	07/11/21 17:08	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/10/21 10:35	07/11/21 17:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/10/21 10:35*	*07/11/21 17:08*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/10/21 10:35*	*07/11/21 17:08*	*1*

Lab Sample ID: LCS 880-5016/1-A
Matrix: Solid
Analysis Batch: 5061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07102		mg/Kg		71	70 - 130
Toluene	0.100	0.07730		mg/Kg		77	70 - 130
Ethylbenzene	0.100	0.08937		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1911		mg/Kg		96	70 - 130
o-Xylene	0.100	0.1038		mg/Kg		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: LCSD 880-5016/2-A
Matrix: Solid
Analysis Batch: 5061

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5016

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08194		mg/Kg		82	70 - 130	14	35
Toluene	0.100	0.08937		mg/Kg		89	70 - 130	14	35
Ethylbenzene	0.100	0.1025		mg/Kg		103	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.2168		mg/Kg		108	70 - 130	13	35
o-Xylene	0.100	0.1176		mg/Kg		118	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*

Lab Sample ID: 890-911-1 MS
Matrix: Solid
Analysis Batch: 5061

Client Sample ID: FL # 24 @ 5
Prep Type: Total/NA
Prep Batch: 5016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	0.05980	F1	mg/Kg		60	70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-911-1 MS
Matrix: Solid
Analysis Batch: 5061

Client Sample ID: FL # 24 @ 5
Prep Type: Total/NA
Prep Batch: 5016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00199	U F1	0.100	0.06582	F1	mg/Kg		66	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.07547		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1566		mg/Kg		78	70 - 130
o-Xylene	<0.00199	U	0.100	0.08246		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-911-1 MSD
Matrix: Solid
Analysis Batch: 5061

Client Sample ID: FL # 24 @ 5
Prep Type: Total/NA
Prep Batch: 5016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0996	0.05746	F1	mg/Kg		58	70 - 130	4	35
Toluene	<0.00199	U F1	0.0996	0.06294	F1	mg/Kg		63	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.0996	0.07118		mg/Kg		71	70 - 130	6	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1471		mg/Kg		74	70 - 130	6	35
o-Xylene	<0.00199	U	0.0996	0.07778		mg/Kg		78	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-5043/5-A
Matrix: Solid
Analysis Batch: 5061

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5043

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/10/21 09:30	07/11/21 06:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/10/21 09:30	07/11/21 06:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/10/21 09:30	07/11/21 06:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/10/21 09:30	07/11/21 06:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/10/21 09:30	07/11/21 06:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/10/21 09:30	07/11/21 06:17	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/10/21 09:30	07/11/21 06:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*07/10/21 09:30*	*07/11/21 06:17*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*07/10/21 09:30*	*07/11/21 06:17*	*1*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-5077/1-A
Matrix: Solid
Analysis Batch: 5065

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/12/21 20:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/12/21 20:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/12/21 20:16	1
Total TPH	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/12/21 20:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*07/12/21 10:12*	*07/12/21 20:16*	*1*
o-Terphenyl	*105*		*70 - 130*	*07/12/21 10:12*	*07/12/21 20:16*	*1*

Lab Sample ID: LCS 880-5077/2-A
Matrix: Solid
Analysis Batch: 5065

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5077

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1006		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1179		mg/Kg		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-5077/3-A
Matrix: Solid
Analysis Batch: 5065

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5077

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	971.0		mg/Kg		97	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1008		mg/Kg		101	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5011/1-A
Matrix: Solid
Analysis Batch: 5102

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/14/21 19:19	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-5011/2-A
Matrix: Solid
Analysis Batch: 5102

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	258.6		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-5011/3-A
Matrix: Solid
Analysis Batch: 5102

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.2		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

GC VOA

Prep Batch: 5016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-911-1	FL # 24 @ 5	Total/NA	Solid	5035	
890-911-2	FL #23 @4	Total/NA	Solid	5035	
890-911-3	FL #26 @ 4	Total/NA	Solid	5035	
890-911-4	WSW #6 @4	Total/NA	Solid	5035	
890-911-5	ESW #5 @5	Total/NA	Solid	5035	
MB 880-5016/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5016/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5016/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-911-1 MS	FL # 24 @ 5	Total/NA	Solid	5035	
890-911-1 MSD	FL # 24 @ 5	Total/NA	Solid	5035	

Prep Batch: 5043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5043/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 5061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-911-1	FL # 24 @ 5	Total/NA	Solid	8021B	5016
890-911-2	FL #23 @4	Total/NA	Solid	8021B	5016
890-911-3	FL #26 @ 4	Total/NA	Solid	8021B	5016
890-911-4	WSW #6 @4	Total/NA	Solid	8021B	5016
890-911-5	ESW #5 @5	Total/NA	Solid	8021B	5016
MB 880-5016/5-A	Method Blank	Total/NA	Solid	8021B	5016
MB 880-5043/5-A	Method Blank	Total/NA	Solid	8021B	5043
LCS 880-5016/1-A	Lab Control Sample	Total/NA	Solid	8021B	5016
LCSD 880-5016/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5016
890-911-1 MS	FL # 24 @ 5	Total/NA	Solid	8021B	5016
890-911-1 MSD	FL # 24 @ 5	Total/NA	Solid	8021B	5016

GC Semi VOA

Analysis Batch: 5065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-911-1	FL # 24 @ 5	Total/NA	Solid	8015B NM	5077
890-911-2	FL #23 @4	Total/NA	Solid	8015B NM	5077
890-911-3	FL #26 @ 4	Total/NA	Solid	8015B NM	5077
890-911-4	WSW #6 @4	Total/NA	Solid	8015B NM	5077
890-911-5	ESW #5 @5	Total/NA	Solid	8015B NM	5077
MB 880-5077/1-A	Method Blank	Total/NA	Solid	8015B NM	5077
LCS 880-5077/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5077
LCSD 880-5077/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5077

Prep Batch: 5077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-911-1	FL # 24 @ 5	Total/NA	Solid	8015NM Prep	
890-911-2	FL #23 @4	Total/NA	Solid	8015NM Prep	
890-911-3	FL #26 @ 4	Total/NA	Solid	8015NM Prep	
890-911-4	WSW #6 @4	Total/NA	Solid	8015NM Prep	
890-911-5	ESW #5 @5	Total/NA	Solid	8015NM Prep	
MB 880-5077/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5077/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

GC Semi VOA (Continued)

Prep Batch: 5077 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-5077/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 5011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-911-1	FL # 24 @ 5	Soluble	Solid	DI Leach	
890-911-2	FL #23 @4	Soluble	Solid	DI Leach	
890-911-3	FL #26 @ 4	Soluble	Solid	DI Leach	
890-911-4	WSW #6 @4	Soluble	Solid	DI Leach	
890-911-5	ESW #5 @5	Soluble	Solid	DI Leach	
MB 880-5011/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5011/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5011/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 5102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-911-1	FL # 24 @ 5	Soluble	Solid	300.0	5011
890-911-2	FL #23 @4	Soluble	Solid	300.0	5011
890-911-3	FL #26 @ 4	Soluble	Solid	300.0	5011
890-911-4	WSW #6 @4	Soluble	Solid	300.0	5011
890-911-5	ESW #5 @5	Soluble	Solid	300.0	5011
MB 880-5011/1-A	Method Blank	Soluble	Solid	300.0	5011
LCS 880-5011/2-A	Lab Control Sample	Soluble	Solid	300.0	5011
LCSD 880-5011/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5011

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Client Sample ID: FL # 24 @ 5

Lab Sample ID: 890-911-1
Matrix: Solid
Date Collected: 07/08/21 14:30
Date Received: 07/08/21 15:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5016	07/10/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5061	07/11/21 17:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5077	07/12/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5065	07/13/21 03:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5011	07/09/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5102	07/14/21 20:07	CH	XEN MID

Client Sample ID: FL #23 @4

Lab Sample ID: 890-911-2
Matrix: Solid
Date Collected: 07/08/21 14:30
Date Received: 07/08/21 15:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5016	07/10/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5061	07/11/21 17:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5077	07/12/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5065	07/13/21 03:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5011	07/09/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5102	07/14/21 20:24	CH	XEN MID

Client Sample ID: FL #26 @ 4

Lab Sample ID: 890-911-3
Matrix: Solid
Date Collected: 07/08/21 14:30
Date Received: 07/08/21 15:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5016	07/10/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5061	07/11/21 18:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5077	07/12/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5065	07/13/21 04:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5011	07/09/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5102	07/14/21 20:29	CH	XEN MID

Client Sample ID: WSW #6 @4

Lab Sample ID: 890-911-4
Matrix: Solid
Date Collected: 07/08/21 14:30
Date Received: 07/08/21 15:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5016	07/10/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5061	07/11/21 18:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5077	07/12/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5065	07/13/21 04:40	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5011	07/09/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5102	07/14/21 20:34	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-911-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: ESW #5 @5
Lab Sample ID: 890-911-5

Date Collected: 07/08/21 14:30
Matrix: Solid

Date Received: 07/08/21 15:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5016	07/10/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5061	07/11/21 18:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5077	07/12/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5065	07/13/21 05:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5011	07/09/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5102	07/14/21 20:40	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-911-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-911-1	FL # 24 @ 5	Solid	07/08/21 14:30	07/08/21 15:32	
890-911-2	FL #23 @4	Solid	07/08/21 14:30	07/08/21 15:32	
890-911-3	FL #26 @ 4	Solid	07/08/21 14:30	07/08/21 15:32	
890-911-4	WSW #6 @4	Solid	07/08/21 14:30	07/08/21 15:32	
890-911-5	ESW #5 @5	Solid	07/08/21 14:30	07/08/21 15:32	

Page 267 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/o Rob Kirk 469-928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	23.8/23.6	Thermometer ID		
Received Intact:	(Yes) No		TNM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	5	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
FL #24 @ 5'	Soil	7/8/21	2:30 PM		1	X	X	X	
FL #23 @ 4'	Soil	7/8/21	2:30 PM		1	X	X	X	
FL #16 @ 4'	Soil	7/8/21	2:30 PM		1	X	X	X	
WSW #6 @ 4'	Soil	7/8/21	2:30 PM		1	X	X	X	
ESW #5 @ 5'	Soil	7/8/21	2:30 PM		1	X	X	X	

890-911 Chain of Custody

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA ~~Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U~~ 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7-8-21 1532	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-293 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-911-1
Address: 1211 W Florida Ave	Due Date Requested: 7/14/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Marathon Kyle to Willow	Project #: 88000073			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc Mid - BTEX	Total Number of containers	Special Instructions/Note:
Preservation Code:											
FL # 24 @ 5 (890-911-1)	7/8/21	14 30 Mountain		Solid			X	X	X	1	
FL #23 @4 (890-911-2)	7/8/21	14 30 Mountain		Solid			X	X	X	1	
FL #26 @ 4 (890-911-3)	7/8/21	14 30 Mountain		Solid			X	X	X	1	
WSW #6 @4 (890-911-4)	7/8/21	14 30 Mountain		Solid			X	X	X	1	
ESW #5 @5 (890-911-5)	7/8/21	14 30 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Clee Cup 7.9.21				7-12-21 10:00am	
2	Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company
3	Relinquished by	Date/Time:	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 11/01/2020

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM
7/15/2021
Page 22 of 24

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-911-1
SDG Number: 13714

Login Number: 911
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-911-1
SDG Number: 13714

Login Number: 911
List Number: 2
Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland
List Creation: 07/10/21 03:00 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-919-1
Laboratory Sample Delivery Group: 13914
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

JKramer

Authorized for release by:
7/16/2021 7:37:56 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Laboratory Job ID: 890-919-1
SDG: 13914

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 16
QC Sample Results 18
QC Association Summary 24
Lab Chronicle 28
Certification Summary 32
Method Summary 33
Sample Summary 34
Chain of Custody 35
Receipt Checklists 37

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-919-1
Project/Site: Marathon Kyle to Willow SDG: 13914

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Job ID: 890-919-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-919-1

Comments
No additional comments.

Receipt
The samples were received on 7/9/2021 3:21 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.0º C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: ESW #8 @4 (890-919-1), ESW #7 @4 (890-919-2), FL #29 @4 (890-919-3), WSW #10 @ 4 (890-919-4), ESW # 6 @ 4 (890-919-5), FL #28 @4 (890-919-6), FL #30 @4 (890-919-7), FL #32 @4 (890-919-8), FL # 27@ 4 (890-919-9), FL #31 @4 (890-919-10), WSW #9 @4 (890-919-11), WSW #8 @4 (890-919-12), WSW #11 @4 (890-919-13), FL # 25@ 4 (890-919-14), WSW #12 @4 (890-919-15) and WSW #7 @ 4 (890-919-16).

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-5137 and analytical batch 880-5260 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10. Both the LCS/LCSD met an acceptable passing criteria, and the MS/MSD was fully compliant providing qualification for the data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: ESW #8 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/13/21 14:47	07/14/21 02:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/21 14:47	07/14/21 02:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/21 14:47	07/14/21 02:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/21 14:47	07/14/21 02:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/21 14:47	07/14/21 02:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/21 14:47	07/14/21 02:19	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/13/21 14:47	07/14/21 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*07/13/21 14:47*	*07/14/21 02:19*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/13/21 14:47*	*07/14/21 02:19*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 10:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 10:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 10:25	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/14/21 08:51*	*07/16/21 10:25*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/14/21 08:51*	*07/16/21 10:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**102**		4.95		mg/Kg			07/14/21 22:05	1

Client Sample ID: ESW #7 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/13/21 14:47	07/14/21 02:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/21 14:47	07/14/21 02:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/21 14:47	07/14/21 02:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/21 14:47	07/14/21 02:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/21 14:47	07/14/21 02:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/21 14:47	07/14/21 02:40	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/13/21 14:47	07/14/21 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*07/13/21 14:47*	*07/14/21 02:40*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*07/13/21 14:47*	*07/14/21 02:40*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		07/14/21 08:51	07/16/21 11:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: ESW #7 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-2

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 08:51	07/16/21 11:28	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 08:51	07/16/21 11:28	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 08:51	07/16/21 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/14/21 08:51*	*07/16/21 11:28*	*1*
o-Terphenyl	*120*		*70 - 130*	*07/14/21 08:51*	*07/16/21 11:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**122**		5.03		mg/Kg			07/14/21 22:10	1

Client Sample ID: FL #29 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 05:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 05:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 05:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 05:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 05:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 05:45	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 05:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/13/21 15:08*	*07/14/21 05:45*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/13/21 15:08*	*07/14/21 05:45*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 11:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 11:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 11:49	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/14/21 08:51*	*07/16/21 11:49*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/14/21 08:51*	*07/16/21 11:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**311**		5.04		mg/Kg			07/14/21 22:16	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: WSW #10 @ 4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 06:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 06:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 06:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 06:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 06:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 06:05	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 06:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/13/21 15:08*	*07/14/21 06:05*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/13/21 15:08*	*07/14/21 06:05*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 12:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 12:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 12:10	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/14/21 08:51*	*07/16/21 12:10*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/14/21 08:51*	*07/16/21 12:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**451**		5.05		mg/Kg			07/14/21 22:32	1

Client Sample ID: ESW # 6 @ 4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 06:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 06:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 06:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/13/21 15:08	07/14/21 06:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 06:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/13/21 15:08	07/14/21 06:25	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/13/21 15:08	07/14/21 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*07/13/21 15:08*	*07/14/21 06:25*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/13/21 15:08*	*07/14/21 06:25*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		07/14/21 08:51	07/16/21 12:32	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: ESW # 6 @ 4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-5

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 08:51	07/16/21 12:32	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 08:51	07/16/21 12:32	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 08:51	07/16/21 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/14/21 08:51*	*07/16/21 12:32*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/14/21 08:51*	*07/16/21 12:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**305**		5.01		mg/Kg			07/14/21 22:38	1

Client Sample ID: FL #28 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 06:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 06:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 06:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 06:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 06:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 06:46	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 06:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/13/21 15:08*	*07/14/21 06:46*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/13/21 15:08*	*07/14/21 06:46*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		07/14/21 08:51	07/16/21 12:53	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/14/21 08:51	07/16/21 12:53	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/14/21 08:51	07/16/21 12:53	1
Total TPH	<49.7	U	49.7		mg/Kg		07/14/21 08:51	07/16/21 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/14/21 08:51*	*07/16/21 12:53*	*1*
o-Terphenyl	*115*		*70 - 130*	*07/14/21 08:51*	*07/16/21 12:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.1**		5.02		mg/Kg			07/14/21 22:44	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: FL #30 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-7

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 07:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 07:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 07:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 07:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 07:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 07:06	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/13/21 15:08*	*07/14/21 07:06*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/13/21 15:08*	*07/14/21 07:06*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		07/14/21 08:51	07/16/21 13:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 13:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 13:14	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/14/21 08:51*	*07/16/21 13:14*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/14/21 08:51*	*07/16/21 13:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.3**		5.01		mg/Kg			07/15/21 11:05	1

Client Sample ID: FL #32 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-8

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/13/21 15:08	07/14/21 07:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/13/21 15:08	07/14/21 07:27	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/13/21 15:08	07/14/21 07:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/13/21 15:08*	*07/14/21 07:27*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/13/21 15:08*	*07/14/21 07:27*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:36	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: FL #32 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-8

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:36	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/14/21 08:51*	*07/16/21 13:36*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/14/21 08:51*	*07/16/21 13:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			07/15/21 11:11	1

Client Sample ID: FL # 27@ 4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-9

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 07:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 07:47	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 07:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/13/21 15:08*	*07/14/21 07:47*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/13/21 15:08*	*07/14/21 07:47*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:57	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*07/14/21 08:51*	*07/16/21 13:57*	*1*
o-Terphenyl	*104*		*70 - 130*	*07/14/21 08:51*	*07/16/21 13:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**368**		4.97		mg/Kg			07/14/21 23:00	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: FL #31 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 08:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 08:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 08:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 08:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 08:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 08:07	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 08:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*07/13/21 15:08*	*07/14/21 08:07*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/13/21 15:08*	*07/14/21 08:07*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		07/14/21 08:51	07/16/21 14:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 14:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 14:18	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/14/21 08:51*	*07/16/21 14:18*	*1*
o-Terphenyl	*105*		*70 - 130*	*07/14/21 08:51*	*07/16/21 14:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.5**		4.95		mg/Kg			07/15/21 11:16	1

Client Sample ID: WSW #9 @4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-11

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 08:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 08:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 08:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 08:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 08:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 08:28	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 08:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/13/21 15:08*	*07/14/21 08:28*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/13/21 15:08*	*07/14/21 08:28*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: WSW #9 @4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-11

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:01	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:01	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/14/21 08:51*	*07/16/21 15:01*	*1*
o-Terphenyl	*118*		*70 - 130*	*07/14/21 08:51*	*07/16/21 15:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**262**		4.97		mg/Kg			07/14/21 23:22	1

Client Sample ID: WSW #8 @4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-12

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 08:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 08:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 08:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 08:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 08:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 08:48	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 08:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/13/21 15:08*	*07/14/21 08:48*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/13/21 15:08*	*07/14/21 08:48*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:22	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*07/14/21 08:51*	*07/16/21 15:22*	*1*
o-Terphenyl	*117*		*70 - 130*	*07/14/21 08:51*	*07/16/21 15:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.4**		4.95		mg/Kg			07/14/21 23:38	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: WSW #11 @4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 10:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 10:09	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 10:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*07/13/21 15:08*	*07/14/21 10:09*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/13/21 15:08*	*07/14/21 10:09*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		07/14/21 08:51	07/16/21 15:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 15:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 15:43	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*07/14/21 08:51*	*07/16/21 15:43*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/14/21 08:51*	*07/16/21 15:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.7**		4.99		mg/Kg			07/14/21 23:44	1

Client Sample ID: FL # 25@ 4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 10:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 10:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 10:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 10:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 10:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 10:30	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 10:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/13/21 15:08*	*07/14/21 10:30*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/13/21 15:08*	*07/14/21 10:30*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:04	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: FL # 25@ 4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-14
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:04	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/14/21 08:51*	*07/16/21 16:04*	*1*
o-Terphenyl	*113*		*70 - 130*	*07/14/21 08:51*	*07/16/21 16:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**375**		5.02		mg/Kg			07/14/21 23:49	1

Client Sample ID: WSW #12 @4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-15
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 10:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 10:50	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 10:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/13/21 15:08*	*07/14/21 10:50*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/13/21 15:08*	*07/14/21 10:50*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:26	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*07/14/21 08:51*	*07/16/21 16:26*	*1*
o-Terphenyl	*106*		*70 - 130*	*07/14/21 08:51*	*07/16/21 16:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**358**		4.99		mg/Kg			07/15/21 11:22	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: WSW #7 @ 4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-16

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 11:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 11:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 11:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 11:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 11:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 11:11	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/13/21 15:08*	*07/14/21 11:11*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/13/21 15:08*	*07/14/21 11:11*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 16:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 16:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 16:47	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*07/14/21 08:51*	*07/16/21 16:47*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/14/21 08:51*	*07/16/21 16:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.53**		4.99		mg/Kg			07/15/21 09:21	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-919-1	ESW #8 @4	121	97
890-919-2	ESW #7 @4	140 S1+	120
890-919-3	FL #29 @4	91	89
890-919-3 MS	FL #29 @4	117	102
890-919-3 MSD	FL #29 @4	107	101
890-919-4	WSW #10 @ 4	101	88
890-919-5	ESW # 6 @ 4	79	93
890-919-6	FL #28 @4	105	91
890-919-7	FL #30 @4	91	92
890-919-8	FL #32 @4	97	92
890-919-9	FL # 27@ 4	96	91
890-919-10	FL #31 @4	100	90
890-919-11	WSW #9 @4	101	89
890-919-12	WSW #8 @4	99	90
890-919-13	WSW #11 @4	90	93
890-919-14	FL # 25@ 4	97	90
890-919-15	WSW #12 @4	96	92
890-919-16	WSW #7 @ 4	98	88
LCS 880-5106/1-A	Lab Control Sample	103	102
LCS 880-5112/1-A	Lab Control Sample	103	104
LCSD 880-5106/2-A	Lab Control Sample Dup	97	96
LCSD 880-5112/2-A	Lab Control Sample Dup	109	103
MB 880-5070/5-A	Method Blank	99	85
MB 880-5106/5-A	Method Blank	114	79
MB 880-5112/5-A	Method Blank	79	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-919-1	ESW #8 @4	101	119
890-919-1 MS	ESW #8 @4	95	95
890-919-1 MSD	ESW #8 @4	96	97
890-919-2	ESW #7 @4	103	120
890-919-3	FL #29 @4	82	99
890-919-4	WSW #10 @ 4	92	107
890-919-5	ESW # 6 @ 4	87	99
890-919-6	FL #28 @4	101	115
890-919-7	FL #30 @4	98	111
890-919-8	FL #32 @4	94	109
890-919-9	FL # 27@ 4	89	104
890-919-10	FL #31 @4	92	105
890-919-11	WSW #9 @4	102	118
890-919-12	WSW #8 @4	100	117

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Surrogate Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-919-1
Project/Site: Marathon Kyle to Willow SDG: 13914

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-919-13	WSW #11 @4	96	111
890-919-14	FL # 25@ 4	98	113
890-919-15	WSW #12 @4	95	106
890-919-16	WSW #7 @ 4	91	107
LCS 880-5137/2-A	Lab Control Sample	114	121
LCSD 880-5137/3-A	Lab Control Sample Dup	114	118
MB 880-5137/1-A	Method Blank	94	111

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5070/5-A
Matrix: Solid
Analysis Batch: 5115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/12/21 09:28	07/13/21 18:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/12/21 09:28	07/13/21 18:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/12/21 09:28	07/13/21 18:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/12/21 09:28	07/13/21 18:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/12/21 09:28	07/13/21 18:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/12/21 09:28	07/13/21 18:34	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/12/21 09:28	07/13/21 18:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/12/21 09:28*	*07/13/21 18:34*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*07/12/21 09:28*	*07/13/21 18:34*	*1*

Lab Sample ID: MB 880-5106/5-A
Matrix: Solid
Analysis Batch: 5114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/13/21 14:47	07/13/21 18:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/13/21 14:47	07/13/21 18:49	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/13/21 14:47	07/13/21 18:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/13/21 14:47*	*07/13/21 18:49*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*07/13/21 14:47*	*07/13/21 18:49*	*1*

Lab Sample ID: LCS 880-5106/1-A
Matrix: Solid
Analysis Batch: 5114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1085		mg/Kg		108	70 - 130
Toluene	0.100	0.09935		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1090		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2084		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-5106/2-A
Matrix: Solid
Analysis Batch: 5114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5106

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09710		mg/Kg		97	70 - 130	11	35
Toluene			0.100	0.08499		mg/Kg		85	70 - 130	16	35
Ethylbenzene			0.100	0.08832		mg/Kg		88	70 - 130	21	35
m-Xylene & p-Xylene			0.200	0.1804		mg/Kg		90	70 - 130	14	35
o-Xylene			0.100	0.08676		mg/Kg		87	70 - 130	15	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 880-5112/5-A
Matrix: Solid
Analysis Batch: 5115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 05:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 05:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 05:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 05:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 05:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 05:23	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 05:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*07/13/21 15:08*	*07/14/21 05:23*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/13/21 15:08*	*07/14/21 05:23*	*1*

Lab Sample ID: LCS 880-5112/1-A
Matrix: Solid
Analysis Batch: 5115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5112

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			0.100	0.09660		mg/Kg		97	70 - 130
Toluene			0.100	0.09183		mg/Kg		92	70 - 130
Ethylbenzene			0.100	0.09213		mg/Kg		92	70 - 130
m-Xylene & p-Xylene			0.200	0.1889		mg/Kg		94	70 - 130
o-Xylene			0.100	0.09527		mg/Kg		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-5112/2-A
Matrix: Solid
Analysis Batch: 5115

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5112

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09888		mg/Kg		99	70 - 130	2	35

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-5112/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 5115 — **Prep Batch: 5112**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.09345		mg/Kg		93	70 - 130	2	35
Ethylbenzene			0.100	0.09505		mg/Kg		95	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1941		mg/Kg		97	70 - 130	3	35
o-Xylene			0.100	0.09913		mg/Kg		99	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-919-3 MS — **Client Sample ID: FL #29 @4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 5115 — **Prep Batch: 5112**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U	0.100	0.07663		mg/Kg		76	70 - 130
Toluene	<0.00201	U	0.100	0.07507		mg/Kg		75	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.07564		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1542		mg/Kg		77	70 - 130
o-Xylene	<0.00201	U	0.100	0.07798		mg/Kg		78	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-919-3 MSD — **Client Sample ID: FL #29 @4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 5115 — **Prep Batch: 5112**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.101	0.08057		mg/Kg		80	70 - 130	5	35
Toluene	<0.00201	U	0.101	0.07760		mg/Kg		77	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.101	0.07728		mg/Kg		77	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1568		mg/Kg		78	70 - 130	2	35
o-Xylene	<0.00201	U	0.101	0.07841		mg/Kg		78	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-5137/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 5260 — **Prep Batch: 5137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 09:22	1

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-5137/1-A
Matrix: Solid
Analysis Batch: 5260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 09:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 09:22	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 09:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/14/21 08:51*	*07/16/21 09:22*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/14/21 08:51*	*07/16/21 09:22*	*1*

Lab Sample ID: LCS 880-5137/2-A
Matrix: Solid
Analysis Batch: 5260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5137

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1258		mg/Kg		126	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1128		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*121*		*70 - 130*

Lab Sample ID: LCSD 880-5137/3-A
Matrix: Solid
Analysis Batch: 5260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5137

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	916.5	*1	mg/Kg		92	70 - 130	31	20
Diesel Range Organics (Over C10-C28)			1000	1100		mg/Kg		110	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*118*		*70 - 130*

Lab Sample ID: 890-919-1 MS
Matrix: Solid
Analysis Batch: 5260

Client Sample ID: ESW #8 @4
Prep Type: Total/NA
Prep Batch: 5137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	996	826.2		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1067		mg/Kg		107	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-919-1 MS
Matrix: Solid
Analysis Batch: 5260

Client Sample ID: ESW #8 @4
Prep Type: Total/NA
Prep Batch: 5137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: 890-919-1 MSD
Matrix: Solid
Analysis Batch: 5260

Client Sample ID: ESW #8 @4
Prep Type: Total/NA
Prep Batch: 5137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	996	908.1		mg/Kg		89	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1116		mg/Kg		112	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5080/1-A
Matrix: Solid
Analysis Batch: 5204

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/14/21 21:27	1

Lab Sample ID: LCS 880-5080/2-A
Matrix: Solid
Analysis Batch: 5204

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	258.9		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-5080/3-A
Matrix: Solid
Analysis Batch: 5204

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	259.2		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-919-9 MS
Matrix: Solid
Analysis Batch: 5204

Client Sample ID: FL # 27@ 4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	368		249	622.4		mg/Kg		102	90 - 110		

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-919-9 MSD
Matrix: Solid
Analysis Batch: 5204

Client Sample ID: FL # 27@ 4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	368		249	615.3		mg/Kg		100	90 - 110	1	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

GC VOA

Prep Batch: 5070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5070/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 5106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-1	ESW #8 @4	Total/NA	Solid	5035	
890-919-2	ESW #7 @4	Total/NA	Solid	5035	
MB 880-5106/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5106/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5106/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 5112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-3	FL #29 @4	Total/NA	Solid	5035	
890-919-4	WSW #10 @ 4	Total/NA	Solid	5035	
890-919-5	ESW # 6 @ 4	Total/NA	Solid	5035	
890-919-6	FL #28 @4	Total/NA	Solid	5035	
890-919-7	FL #30 @4	Total/NA	Solid	5035	
890-919-8	FL #32 @4	Total/NA	Solid	5035	
890-919-9	FL # 27@ 4	Total/NA	Solid	5035	
890-919-10	FL #31 @4	Total/NA	Solid	5035	
890-919-11	WSW #9 @4	Total/NA	Solid	5035	
890-919-12	WSW #8 @4	Total/NA	Solid	5035	
890-919-13	WSW #11 @4	Total/NA	Solid	5035	
890-919-14	FL # 25@ 4	Total/NA	Solid	5035	
890-919-15	WSW #12 @4	Total/NA	Solid	5035	
890-919-16	WSW #7 @ 4	Total/NA	Solid	5035	
MB 880-5112/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5112/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5112/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-919-3 MS	FL #29 @4	Total/NA	Solid	5035	
890-919-3 MSD	FL #29 @4	Total/NA	Solid	5035	

Analysis Batch: 5114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-1	ESW #8 @4	Total/NA	Solid	8021B	5106
890-919-2	ESW #7 @4	Total/NA	Solid	8021B	5106
MB 880-5106/5-A	Method Blank	Total/NA	Solid	8021B	5106
LCS 880-5106/1-A	Lab Control Sample	Total/NA	Solid	8021B	5106
LCSD 880-5106/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5106

Analysis Batch: 5115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-3	FL #29 @4	Total/NA	Solid	8021B	5112
890-919-4	WSW #10 @ 4	Total/NA	Solid	8021B	5112
890-919-5	ESW # 6 @ 4	Total/NA	Solid	8021B	5112
890-919-6	FL #28 @4	Total/NA	Solid	8021B	5112
890-919-7	FL #30 @4	Total/NA	Solid	8021B	5112
890-919-8	FL #32 @4	Total/NA	Solid	8021B	5112
890-919-9	FL # 27@ 4	Total/NA	Solid	8021B	5112
890-919-10	FL #31 @4	Total/NA	Solid	8021B	5112
890-919-11	WSW #9 @4	Total/NA	Solid	8021B	5112

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

GC VOA (Continued)

Analysis Batch: 5115 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-12	WSW #8 @4	Total/NA	Solid	8021B	5112
890-919-13	WSW #11 @4	Total/NA	Solid	8021B	5112
890-919-14	FL # 25@ 4	Total/NA	Solid	8021B	5112
890-919-15	WSW #12 @4	Total/NA	Solid	8021B	5112
890-919-16	WSW #7 @ 4	Total/NA	Solid	8021B	5112
MB 880-5070/5-A	Method Blank	Total/NA	Solid	8021B	5070
MB 880-5112/5-A	Method Blank	Total/NA	Solid	8021B	5112
LCS 880-5112/1-A	Lab Control Sample	Total/NA	Solid	8021B	5112
LCSD 880-5112/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5112
890-919-3 MS	FL #29 @4	Total/NA	Solid	8021B	5112
890-919-3 MSD	FL #29 @4	Total/NA	Solid	8021B	5112

GC Semi VOA

Prep Batch: 5137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-1	ESW #8 @4	Total/NA	Solid	8015NM Prep	
890-919-2	ESW #7 @4	Total/NA	Solid	8015NM Prep	
890-919-3	FL #29 @4	Total/NA	Solid	8015NM Prep	
890-919-4	WSW #10 @ 4	Total/NA	Solid	8015NM Prep	
890-919-5	ESW # 6 @ 4	Total/NA	Solid	8015NM Prep	
890-919-6	FL #28 @4	Total/NA	Solid	8015NM Prep	
890-919-7	FL #30 @4	Total/NA	Solid	8015NM Prep	
890-919-8	FL #32 @4	Total/NA	Solid	8015NM Prep	
890-919-9	FL # 27@ 4	Total/NA	Solid	8015NM Prep	
890-919-10	FL #31 @4	Total/NA	Solid	8015NM Prep	
890-919-11	WSW #9 @4	Total/NA	Solid	8015NM Prep	
890-919-12	WSW #8 @4	Total/NA	Solid	8015NM Prep	
890-919-13	WSW #11 @4	Total/NA	Solid	8015NM Prep	
890-919-14	FL # 25@ 4	Total/NA	Solid	8015NM Prep	
890-919-15	WSW #12 @4	Total/NA	Solid	8015NM Prep	
890-919-16	WSW #7 @ 4	Total/NA	Solid	8015NM Prep	
MB 880-5137/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5137/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5137/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-919-1 MS	ESW #8 @4	Total/NA	Solid	8015NM Prep	
890-919-1 MSD	ESW #8 @4	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-1	ESW #8 @4	Total/NA	Solid	8015B NM	5137
890-919-2	ESW #7 @4	Total/NA	Solid	8015B NM	5137
890-919-3	FL #29 @4	Total/NA	Solid	8015B NM	5137
890-919-4	WSW #10 @ 4	Total/NA	Solid	8015B NM	5137
890-919-5	ESW # 6 @ 4	Total/NA	Solid	8015B NM	5137
890-919-6	FL #28 @4	Total/NA	Solid	8015B NM	5137
890-919-7	FL #30 @4	Total/NA	Solid	8015B NM	5137
890-919-8	FL #32 @4	Total/NA	Solid	8015B NM	5137
890-919-9	FL # 27@ 4	Total/NA	Solid	8015B NM	5137
890-919-10	FL #31 @4	Total/NA	Solid	8015B NM	5137
890-919-11	WSW #9 @4	Total/NA	Solid	8015B NM	5137

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

GC Semi VOA (Continued)

Analysis Batch: 5260 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-12	WSW #8 @4	Total/NA	Solid	8015B NM	5137
890-919-13	WSW #11 @4	Total/NA	Solid	8015B NM	5137
890-919-14	FL # 25@ 4	Total/NA	Solid	8015B NM	5137
890-919-15	WSW #12 @4	Total/NA	Solid	8015B NM	5137
890-919-16	WSW #7 @ 4	Total/NA	Solid	8015B NM	5137
MB 880-5137/1-A	Method Blank	Total/NA	Solid	8015B NM	5137
LCS 880-5137/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5137
LCSD 880-5137/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5137
890-919-1 MS	ESW #8 @4	Total/NA	Solid	8015B NM	5137
890-919-1 MSD	ESW #8 @4	Total/NA	Solid	8015B NM	5137

HPLC/IC

Leach Batch: 5080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-1	ESW #8 @4	Soluble	Solid	DI Leach	
890-919-2	ESW #7 @4	Soluble	Solid	DI Leach	
890-919-3	FL #29 @4	Soluble	Solid	DI Leach	
890-919-4	WSW #10 @ 4	Soluble	Solid	DI Leach	
890-919-5	ESW # 6 @ 4	Soluble	Solid	DI Leach	
890-919-6	FL #28 @4	Soluble	Solid	DI Leach	
890-919-7	FL #30 @4	Soluble	Solid	DI Leach	
890-919-8	FL #32 @4	Soluble	Solid	DI Leach	
890-919-9	FL # 27@ 4	Soluble	Solid	DI Leach	
890-919-10	FL #31 @4	Soluble	Solid	DI Leach	
890-919-11	WSW #9 @4	Soluble	Solid	DI Leach	
890-919-12	WSW #8 @4	Soluble	Solid	DI Leach	
890-919-13	WSW #11 @4	Soluble	Solid	DI Leach	
890-919-14	FL # 25@ 4	Soluble	Solid	DI Leach	
890-919-15	WSW #12 @4	Soluble	Solid	DI Leach	
890-919-16	WSW #7 @ 4	Soluble	Solid	DI Leach	
MB 880-5080/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5080/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5080/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-919-9 MS	FL # 27@ 4	Soluble	Solid	DI Leach	
890-919-9 MSD	FL # 27@ 4	Soluble	Solid	DI Leach	

Analysis Batch: 5204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-1	ESW #8 @4	Soluble	Solid	300.0	5080
890-919-2	ESW #7 @4	Soluble	Solid	300.0	5080
890-919-3	FL #29 @4	Soluble	Solid	300.0	5080
890-919-4	WSW #10 @ 4	Soluble	Solid	300.0	5080
890-919-5	ESW # 6 @ 4	Soluble	Solid	300.0	5080
890-919-6	FL #28 @4	Soluble	Solid	300.0	5080
890-919-7	FL #30 @4	Soluble	Solid	300.0	5080
890-919-8	FL #32 @4	Soluble	Solid	300.0	5080
890-919-9	FL # 27@ 4	Soluble	Solid	300.0	5080
890-919-10	FL #31 @4	Soluble	Solid	300.0	5080
890-919-11	WSW #9 @4	Soluble	Solid	300.0	5080
890-919-12	WSW #8 @4	Soluble	Solid	300.0	5080

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

HPLC/IC (Continued)

Analysis Batch: 5204 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-13	WSW #11 @4	Soluble	Solid	300.0	5080
890-919-14	FL # 25@ 4	Soluble	Solid	300.0	5080
890-919-15	WSW #12 @4	Soluble	Solid	300.0	5080
890-919-16	WSW #7 @ 4	Soluble	Solid	300.0	5080
MB 880-5080/1-A	Method Blank	Soluble	Solid	300.0	5080
LCS 880-5080/2-A	Lab Control Sample	Soluble	Solid	300.0	5080
LCSD 880-5080/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5080
890-919-9 MS	FL # 27@ 4	Soluble	Solid	300.0	5080
890-919-9 MSD	FL # 27@ 4	Soluble	Solid	300.0	5080

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: ESW #8 @4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5106	07/13/21 14:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5114	07/14/21 02:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 10:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 22:05	CH	XEN MID

Client Sample ID: ESW #7 @4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5106	07/13/21 14:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5114	07/14/21 02:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 11:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 22:10	CH	XEN MID

Client Sample ID: FL #29 @4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 05:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 11:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 22:16	CH	XEN MID

Client Sample ID: WSW #10 @ 4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 06:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 12:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 22:32	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: ESW # 6 @ 4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 06:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 12:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 22:38	CH	XEN MID

Client Sample ID: FL #28 @4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 06:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 12:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 22:44	CH	XEN MID

Client Sample ID: FL #30 @4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 07:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 13:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/15/21 11:05	CH	XEN MID

Client Sample ID: FL #32 @4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 07:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 13:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/15/21 11:11	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: FL # 27@ 4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 07:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 13:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 23:00	CH	XEN MID

Client Sample ID: FL #31 @4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 08:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 14:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/15/21 11:16	CH	XEN MID

Client Sample ID: WSW #9 @4
Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 08:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 15:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 23:22	CH	XEN MID

Client Sample ID: WSW #8 @4
Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 08:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 15:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 23:38	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: WSW #11 @4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 10:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 15:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 23:44	CH	XEN MID

Client Sample ID: FL # 25@ 4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 10:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 16:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 23:49	CH	XEN MID

Client Sample ID: WSW #12 @4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 10:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 16:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/15/21 11:22	CH	XEN MID

Client Sample ID: WSW #7 @ 4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 11:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 16:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/15/21 09:21	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-919-1
Project/Site: Marathon Kyle to Willow
SDG: 13914

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-919-1	ESW #8 @4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-2	ESW #7 @4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-3	FL #29 @4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-4	WSW #10 @ 4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-5	ESW # 6 @ 4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-6	FL #28 @4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-7	FL #30 @4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-8	FL #32 @4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-9	FL # 27@ 4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-10	FL #31 @4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-11	WSW #9 @4	Solid	07/09/21 13:30	07/09/21 15:21	
890-919-12	WSW #8 @4	Solid	07/09/21 13:30	07/09/21 15:21	
890-919-13	WSW #11 @4	Solid	07/09/21 13:30	07/09/21 15:21	
890-919-14	FL # 25@ 4	Solid	07/09/21 13:30	07/09/21 15:21	
890-919-15	WSW #12 @4	Solid	07/09/21 13:30	07/09/21 15:21	
890-919-16	WSW #7 @ 4	Solid	07/09/21 13:30	07/09/21 15:21	

Page 305 of 812

Chain of Custody

XENCO LABORATORIES

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris c/o Rob Kirk (469)928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13914	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	8.2/F.C	Thermometer ID	IR-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
CSW #8 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
CSW #7 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
FL #29 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
WSW #10 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
CSW #6 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
FL #28 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
FL #30 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
FL #32 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
FL #27 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
FL #31 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	

890-919 Chain of Custody

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7.9.21 1521	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Page 306 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris c/o Rob Kirk (469) 928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/US ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
WSW #9 @ 4'	Soil	7-9-21	1:30 PM		1	X	X	X		
WSW #8 @ 4'	Soil	7-9-21	1:30 pm		1	X	X	X		
WSW # 11 @ 4'	Soil	7-9-21	1:30 pm		1	X	X	X		
FL # 25 @ 4'	Soil	7-9-21	1:30 pm		1	X	X	X		
WSW # 12 @ 4'	Soil	7-9-21	1:30 pm		1	X	X	X		
WSW # 7 @ 4'	Soil	7-9-21	1:30 pm		1	X	X	X		
	~~Soil~~	~~7-9-21~~	~~1:30 PM~~		1	X	X	X		

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U~~ 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7-9-21 1521	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

7/16/2021

Page 36 of 38

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-919-1
SDG Number: 13914

Login Number: 919
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-919-1
SDG Number: 13914

Login Number: 919
List Number: 2
Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland
List Creation: 07/13/21 02:49 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-940-1
Laboratory Sample Delivery Group: 13714
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: Joel Lowry

JKramer

Authorized for release by:
7/15/2021 9:04:17 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
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Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 35
QC Sample Results 38
QC Association Summary 49
Lab Chronicle 58
Certification Summary 70
Method Summary 71
Sample Summary 72
Chain of Custody 73
Receipt Checklists 81

Released to Imaging: 12/1/2021 8:29:26 AM

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Job ID: 890-940-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-940-1

Comments
No additional comments.

Receipt
The samples were received on 7/13/2021 3:39 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.3º C.

Receipt Exceptions

The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): <&commaMerge&
Sample received lid says: SSW#4 @4 7-13-21 Marathon Kyle to Willow

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: FL#49@9 (890-940-37). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: WSW#20@4 (890-940-8), ESW#15@7 (890-940-19) and ESW#16@9 (890-940-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-5145 and analytical batch 880-5206 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: WSW#13@4
Lab Sample ID: 890-940-1
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 17:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 17:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 17:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:16	07/14/21 17:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 17:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:16	07/14/21 17:57	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:16	07/14/21 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/14/21 09:16*	*07/14/21 17:57*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*07/14/21 09:16*	*07/14/21 17:57*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 23:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 23:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 23:57	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/14/21 15:14*	*07/14/21 23:57*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/14/21 15:14*	*07/14/21 23:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**459**		5.00		mg/Kg			07/15/21 07:46	1

Client Sample ID: WSW#14@4
Lab Sample ID: 890-940-2
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 18:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 18:18	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/14/21 09:16*	*07/14/21 18:18*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/14/21 09:16*	*07/14/21 18:18*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 00:59	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: WSW#14@4

Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-2

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 00:59	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 00:59	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/14/21 15:14*	*07/15/21 00:59*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/14/21 15:14*	*07/15/21 00:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**495**		4.97		mg/Kg			07/15/21 08:02	1

Client Sample ID: WSW#15@4

Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 18:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 18:39	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/14/21 09:16*	*07/14/21 18:39*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/14/21 09:16*	*07/14/21 18:39*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:19	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/14/21 15:14*	*07/15/21 01:19*	*1*
o-Terphenyl	*125*		*70 - 130*	*07/14/21 15:14*	*07/15/21 01:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**368**		5.01		mg/Kg			07/15/21 08:07	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: WSW#16@4
Lab Sample ID: 890-940-4
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 19:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 19:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 19:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 19:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 19:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 19:00	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/14/21 09:16*	*07/14/21 19:00*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/14/21 09:16*	*07/14/21 19:00*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:40	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*07/14/21 15:14*	*07/15/21 01:40*	*1*
o-Terphenyl	*126*		*70 - 130*	*07/14/21 15:14*	*07/15/21 01:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**121**		5.04		mg/Kg			07/15/21 08:13	1

Client Sample ID: WSW#17@4
Lab Sample ID: 890-940-5
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 19:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 19:20	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/14/21 09:16*	*07/14/21 19:20*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/14/21 09:16*	*07/14/21 19:20*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 02:00	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: WSW#17@4
Lab Sample ID: 890-940-5
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 02:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 02:00	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*07/14/21 15:14*	*07/15/21 02:00*	*1*
o-Terphenyl	*121*		*70 - 130*	*07/14/21 15:14*	*07/15/21 02:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**398**		5.02		mg/Kg			07/15/21 08:18	1

Client Sample ID: WSW#18@4
Lab Sample ID: 890-940-6
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/21 09:16	07/14/21 19:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/21 09:16	07/14/21 19:41	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/14/21 09:16	07/14/21 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/14/21 09:16*	*07/14/21 19:41*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/14/21 09:16*	*07/14/21 19:41*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/14/21 15:14	07/15/21 02:21	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/14/21 15:14	07/15/21 02:21	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/14/21 15:14	07/15/21 02:21	1
Total TPH	<49.7	U	49.7		mg/Kg		07/14/21 15:14	07/15/21 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/14/21 15:14*	*07/15/21 02:21*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/14/21 15:14*	*07/15/21 02:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**409**		4.95		mg/Kg			07/15/21 08:34	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: WSW#19@4

Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-7
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/21 09:16	07/14/21 20:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/21 09:16	07/14/21 20:02	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/14/21 09:16	07/14/21 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/14/21 09:16*	*07/14/21 20:02*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/14/21 09:16*	*07/14/21 20:02*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 02:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 02:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 02:42	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/14/21 15:14*	*07/15/21 02:42*	*1*
o-Terphenyl	*121*		*70 - 130*	*07/14/21 15:14*	*07/15/21 02:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**173**		5.02		mg/Kg			07/15/21 08:40	1

Client Sample ID: WSW#20@4

Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-8
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 20:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 20:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 20:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 20:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 20:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 20:22	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*07/14/21 09:16*	*07/14/21 20:22*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/14/21 09:16*	*07/14/21 20:22*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:02	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: WSW#20@4
Lab Sample ID: 890-940-8
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:02	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/14/21 15:14*	*07/15/21 03:02*	*1*
o-Terphenyl	*121*		*70 - 130*	*07/14/21 15:14*	*07/15/21 03:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**215**		4.99		mg/Kg			07/15/21 08:45	1

Client Sample ID: WSW#21@4
Lab Sample ID: 890-940-9
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 20:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 20:43	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/14/21 09:16*	*07/14/21 20:43*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/14/21 09:16*	*07/14/21 20:43*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:23	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*07/14/21 15:14*	*07/15/21 03:23*	*1*
o-Terphenyl	*126*		*70 - 130*	*07/14/21 15:14*	*07/15/21 03:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		5.04		mg/Kg			07/15/21 08:50	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: WSW#22@4

Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-10
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 21:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 21:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 21:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 21:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 21:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 21:04	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/14/21 09:16*	*07/14/21 21:04*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/14/21 09:16*	*07/14/21 21:04*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 03:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 03:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 03:43	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/14/21 15:14*	*07/15/21 03:43*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/14/21 15:14*	*07/15/21 03:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**		4.96		mg/Kg			07/15/21 08:56	1

Client Sample ID: WSW#23@4

Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-11
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/14/21 22:27	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/14/21 22:27	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/14/21 22:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/14/21 09:16	07/14/21 22:27	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/14/21 22:27	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/14/21 09:16	07/14/21 22:27	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/14/21 09:16	07/14/21 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/14/21 09:16*	*07/14/21 22:27*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/14/21 09:16*	*07/14/21 22:27*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:25	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: WSW#23@4
Lab Sample ID: 890-940-11
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:25	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/14/21 15:14*	*07/15/21 04:25*	*1*
o-Terphenyl	*125*		*70 - 130*	*07/14/21 15:14*	*07/15/21 04:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**98.0**		4.98		mg/Kg			07/15/21 09:01	1

Client Sample ID: WSW#24@9
Lab Sample ID: 890-940-12
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 22:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 22:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 22:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:16	07/14/21 22:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 22:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:16	07/14/21 22:48	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:16	07/14/21 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*07/14/21 09:16*	*07/14/21 22:48*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/14/21 09:16*	*07/14/21 22:48*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:45	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/14/21 15:14*	*07/15/21 04:45*	*1*
o-Terphenyl	*120*		*70 - 130*	*07/14/21 15:14*	*07/15/21 04:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**142**		4.98		mg/Kg			07/15/21 11:36	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: ESW#9@4

Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-13
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 23:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 23:08	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/14/21 09:16*	*07/14/21 23:08*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/14/21 09:16*	*07/14/21 23:08*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:06	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*07/14/21 15:14*	*07/15/21 05:06*	*1*
o-Terphenyl	*129*		*70 - 130*	*07/14/21 15:14*	*07/15/21 05:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73.6**		4.98		mg/Kg			07/15/21 11:41	1

Client Sample ID: ESW#10@4

Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-14
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 23:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 23:29	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*07/14/21 09:16*	*07/14/21 23:29*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*07/14/21 09:16*	*07/14/21 23:29*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:26	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: ESW#10@4
Lab Sample ID: 890-940-14
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:26	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*07/14/21 15:14*	*07/15/21 05:26*	*1*
o-Terphenyl	*130*		*70 - 130*	*07/14/21 15:14*	*07/15/21 05:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.4**		5.00		mg/Kg			07/15/21 11:58	1

Client Sample ID: ESW#11@4
Lab Sample ID: 890-940-15
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 23:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 23:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 23:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 23:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 23:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 23:50	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/14/21 09:16*	*07/14/21 23:50*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*07/14/21 09:16*	*07/14/21 23:50*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:47	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*07/14/21 15:14*	*07/15/21 05:47*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/14/21 15:14*	*07/15/21 05:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**284**		5.00		mg/Kg			07/15/21 12:03	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: ESW#12@4
Lab Sample ID: 890-940-16
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 00:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 00:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 00:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/15/21 00:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 00:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/15/21 00:10	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/15/21 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/14/21 09:16*	*07/15/21 00:10*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/14/21 09:16*	*07/15/21 00:10*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:08	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/14/21 15:14*	*07/15/21 06:08*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/14/21 15:14*	*07/15/21 06:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**187**		5.04		mg/Kg			07/15/21 12:09	1

Client Sample ID: ESW#13@4
Lab Sample ID: 890-940-17
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/15/21 00:31	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/15/21 00:31	1
Ethylbenzene	**0.00316**		0.00198		mg/Kg		07/14/21 09:16	07/15/21 00:31	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/14/21 09:16	07/15/21 00:31	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/15/21 00:31	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/14/21 09:16	07/15/21 00:31	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/14/21 09:16	07/15/21 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*07/14/21 09:16*	*07/15/21 00:31*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/14/21 09:16*	*07/15/21 00:31*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:28	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: ESW#13@4

Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-17

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:28	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/14/21 15:14*	*07/15/21 06:28*	*1*
o-Terphenyl	*126*		*70 - 130*	*07/14/21 15:14*	*07/15/21 06:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**179**		5.02		mg/Kg			07/15/21 12:14	1

Client Sample ID: ESW#14@4

Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-18

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:16	07/15/21 00:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:16	07/15/21 00:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:16	07/15/21 00:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/14/21 09:16	07/15/21 00:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:16	07/15/21 00:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/14/21 09:16	07/15/21 00:52	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/14/21 09:16	07/15/21 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/14/21 09:16*	*07/15/21 00:52*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*07/14/21 09:16*	*07/15/21 00:52*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 06:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 06:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 06:49	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 06:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*07/14/21 15:14*	*07/15/21 06:49*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*07/14/21 15:14*	*07/15/21 06:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.3**		5.00		mg/Kg			07/15/21 12:19	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: ESW#15@7

Lab Sample ID: 890-940-19
Matrix: Solid
Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 01:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 01:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 01:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/21 09:16	07/15/21 01:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 01:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/21 09:16	07/15/21 01:12	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/14/21 09:16	07/15/21 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*07/14/21 09:16*	*07/15/21 01:12*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/14/21 09:16*	*07/15/21 01:12*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 07:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 07:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 07:09	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 07:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/14/21 15:14*	*07/15/21 07:09*	*1*
o-Terphenyl	*125*		*70 - 130*	*07/14/21 15:14*	*07/15/21 07:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.81**		5.00		mg/Kg			07/15/21 12:25	1

Client Sample ID: ESW#16@9

Lab Sample ID: 890-940-20
Matrix: Solid
Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/15/21 01:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/15/21 01:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/15/21 01:33	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/14/21 09:16	07/15/21 01:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/15/21 01:33	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/14/21 09:16	07/15/21 01:33	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/14/21 09:16	07/15/21 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*07/14/21 09:16*	*07/15/21 01:33*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/14/21 09:16*	*07/15/21 01:33*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 07:29	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: ESW#16@9

Lab Sample ID: 890-940-20
Matrix: Solid
Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 07:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 07:29	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 07:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/14/21 15:14*	*07/15/21 07:29*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/14/21 15:14*	*07/15/21 07:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.2**		5.00		mg/Kg			07/15/21 12:30	1

Client Sample ID: FL#33@4

Lab Sample ID: 890-940-21
Matrix: Solid
Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 17:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 17:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 17:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 17:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 17:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 17:55	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/14/21 09:20*	*07/14/21 17:55*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/14/21 09:20*	*07/14/21 17:55*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		07/14/21 15:29	07/14/21 23:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/14/21 23:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/14/21 23:57	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/14/21 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/14/21 15:29*	*07/14/21 23:57*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/14/21 15:29*	*07/14/21 23:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**133**		4.98		mg/Kg			07/15/21 01:41	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#34@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-22
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 18:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 18:16	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/14/21 09:20*	*07/14/21 18:16*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/14/21 09:20*	*07/14/21 18:16*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 00:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 00:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 00:59	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*07/14/21 15:29*	*07/15/21 00:59*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/14/21 15:29*	*07/15/21 00:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**225**		5.04		mg/Kg			07/15/21 01:57	1

Client Sample ID: FL#35@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-23
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 18:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 18:36	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/14/21 09:20*	*07/14/21 18:36*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/14/21 09:20*	*07/14/21 18:36*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:19	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL#35@4
Lab Sample ID: 890-940-23
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:19	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/14/21 15:29*	*07/15/21 01:19*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/14/21 15:29*	*07/15/21 01:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**125**		5.00		mg/Kg			07/15/21 02:03	1

Client Sample ID: FL#36@4
Lab Sample ID: 890-940-24
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 18:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 18:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 18:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/14/21 18:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 18:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/14/21 18:57	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/14/21 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/14/21 09:20*	*07/14/21 18:57*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/14/21 09:20*	*07/14/21 18:57*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:40	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/14/21 15:29*	*07/15/21 01:40*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/14/21 15:29*	*07/15/21 01:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**126**		4.96		mg/Kg			07/15/21 02:08	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#37@4

Lab Sample ID: 890-940-25
Matrix: Solid
Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 19:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 19:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 19:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 19:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 19:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 19:17	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/14/21 09:20*	*07/14/21 19:17*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/14/21 09:20*	*07/14/21 19:17*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 02:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 02:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 02:00	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/14/21 15:29*	*07/15/21 02:00*	*1*
o-Terphenyl	*106*		*70 - 130*	*07/14/21 15:29*	*07/15/21 02:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**168**		4.99		mg/Kg			07/15/21 02:14	1

Client Sample ID: FL#38@4 FT 6IN

Lab Sample ID: 890-940-26
Matrix: Solid
Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 19:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 19:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 19:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 19:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 19:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 19:37	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/14/21 09:20*	*07/14/21 19:37*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/14/21 09:20*	*07/14/21 19:37*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/14/21 15:29	07/15/21 02:21	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#38@4 FT 6IN

Lab Sample ID: 890-940-26
Matrix: Solid
Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/14/21 15:29	07/15/21 02:21	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/14/21 15:29	07/15/21 02:21	1
Total TPH	<49.7	U	49.7		mg/Kg		07/14/21 15:29	07/15/21 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*07/14/21 15:29*	*07/15/21 02:21*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/14/21 15:29*	*07/15/21 02:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**242**		5.05		mg/Kg			07/15/21 02:30	1

Client Sample ID: FL#39@4 FT 6 IN

Lab Sample ID: 890-940-27
Matrix: Solid
Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 19:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 19:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 19:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/14/21 09:20	07/14/21 19:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 19:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/14/21 09:20	07/14/21 19:58	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/14/21 09:20	07/14/21 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/14/21 09:20*	*07/14/21 19:58*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/14/21 09:20*	*07/14/21 19:58*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 02:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 02:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 02:42	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/14/21 15:29*	*07/15/21 02:42*	*1*
o-Terphenyl	*91*		*70 - 130*	*07/14/21 15:29*	*07/15/21 02:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**		5.01		mg/Kg			07/15/21 02:35	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#40@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-28
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 20:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 20:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 20:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/14/21 09:20	07/14/21 20:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 20:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/14/21 09:20	07/14/21 20:18	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		07/14/21 09:20	07/14/21 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/14/21 09:20*	*07/14/21 20:18*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/14/21 09:20*	*07/14/21 20:18*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:02	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*07/14/21 15:29*	*07/15/21 03:02*	*1*
o-Terphenyl	*95*		*70 - 130*	*07/14/21 15:29*	*07/15/21 03:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**134**		5.04		mg/Kg			07/15/21 02:41	1

Client Sample ID: FL#41@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-29
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 20:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 20:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 20:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 20:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 20:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 20:39	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/14/21 09:20*	*07/14/21 20:39*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/14/21 09:20*	*07/14/21 20:39*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:23	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#41@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-29
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:23	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/14/21 15:29*	*07/15/21 03:23*	*1*
o-Terphenyl	*94*		*70 - 130*	*07/14/21 15:29*	*07/15/21 03:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.8**		5.00		mg/Kg			07/15/21 02:46	1

Client Sample ID: FL#42@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-30
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 20:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 20:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 20:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/14/21 20:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 20:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/14/21 20:59	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/14/21 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*07/14/21 09:20*	*07/14/21 20:59*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/14/21 09:20*	*07/14/21 20:59*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 03:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 03:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 03:43	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/14/21 15:29*	*07/15/21 03:43*	*1*
o-Terphenyl	*113*		*70 - 130*	*07/14/21 15:29*	*07/15/21 03:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.5**		4.98		mg/Kg			07/15/21 02:51	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#43@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-31
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 22:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 22:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 22:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 22:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 22:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 22:20	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*07/14/21 09:20*	*07/14/21 22:20*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/14/21 09:20*	*07/14/21 22:20*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:25	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/14/21 15:29*	*07/15/21 04:25*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/14/21 15:29*	*07/15/21 04:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.6**		4.98		mg/Kg			07/15/21 02:57	1

Client Sample ID: FL#44@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-32
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 22:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 22:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 22:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 22:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 22:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 22:41	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/14/21 09:20*	*07/14/21 22:41*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/14/21 09:20*	*07/14/21 22:41*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:45	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#44@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-32
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:45	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*07/14/21 15:29*	*07/15/21 04:45*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/14/21 15:29*	*07/15/21 04:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.9**		5.04		mg/Kg			07/15/21 03:13	1

Client Sample ID: FL#45@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-33
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 23:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 23:01	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/14/21 09:20*	*07/14/21 23:01*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/14/21 09:20*	*07/14/21 23:01*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:06	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/14/21 15:29*	*07/15/21 05:06*	*1*
o-Terphenyl	*91*		*70 - 130*	*07/14/21 15:29*	*07/15/21 05:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.6**		4.99		mg/Kg			07/15/21 03:18	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#46@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-34
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/21 09:20	07/14/21 23:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/21 09:20	07/14/21 23:21	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/14/21 09:20	07/14/21 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/14/21 09:20*	*07/14/21 23:21*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/14/21 09:20*	*07/14/21 23:21*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:26	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/14/21 15:29*	*07/15/21 05:26*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/14/21 15:29*	*07/15/21 05:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**406**		4.98		mg/Kg			07/15/21 03:34	1

Client Sample ID: FL#47@9

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-35
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 23:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 23:42	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/14/21 09:20*	*07/14/21 23:42*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/14/21 09:20*	*07/14/21 23:42*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:47	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#47@9

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-35
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:47	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:47	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/14/21 15:29*	*07/15/21 05:47*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/14/21 15:29*	*07/15/21 05:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.7**		4.95		mg/Kg			07/15/21 03:40	1

Client Sample ID: FL#48@9

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-36
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/15/21 00:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/15/21 00:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/15/21 00:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/14/21 09:20	07/15/21 00:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/15/21 00:02	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/14/21 09:20	07/15/21 00:02	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/14/21 09:20	07/15/21 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/14/21 09:20*	*07/15/21 00:02*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*07/14/21 09:20*	*07/15/21 00:02*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:08	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*07/14/21 15:29*	*07/15/21 06:08*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/14/21 15:29*	*07/15/21 06:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.3**		5.02		mg/Kg			07/15/21 03:45	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#49@9

Lab Sample ID: 890-940-37
Matrix: Solid
Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/15/21 00:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/15/21 00:23	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/15/21 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/14/21 09:20*	*07/15/21 00:23*	*1*
1,4-Difluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*07/14/21 09:20*	*07/15/21 00:23*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:28	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/14/21 15:29*	*07/15/21 06:28*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/14/21 15:29*	*07/15/21 06:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.7**		5.05		mg/Kg			07/15/21 03:51	1

Client Sample ID: FL#50@9

Lab Sample ID: 890-940-38
Matrix: Solid
Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/15/21 00:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/15/21 00:43	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/15/21 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/14/21 09:20*	*07/15/21 00:43*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/14/21 09:20*	*07/15/21 00:43*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 06:49	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#50@9

Lab Sample ID: 890-940-38
Matrix: Solid
Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 06:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 06:49	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 06:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/14/21 15:29*	*07/15/21 06:49*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/14/21 15:29*	*07/15/21 06:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.5**		4.98		mg/Kg			07/15/21 03:56	1

Client Sample ID: FL#51@9

Lab Sample ID: 890-940-39
Matrix: Solid
Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/15/21 01:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/15/21 01:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/15/21 01:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/15/21 01:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/15/21 01:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/15/21 01:03	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/15/21 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/14/21 09:20*	*07/15/21 01:03*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/14/21 09:20*	*07/15/21 01:03*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 07:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 07:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 07:09	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 07:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/14/21 15:29*	*07/15/21 07:09*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/14/21 15:29*	*07/15/21 07:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**639**		5.00		mg/Kg			07/15/21 04:01	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#52@9

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-40
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/15/21 01:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/15/21 01:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/15/21 01:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/15/21 01:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/15/21 01:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/15/21 01:24	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/15/21 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/14/21 09:20*	*07/15/21 01:24*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/14/21 09:20*	*07/15/21 01:24*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 07:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 07:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 07:29	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 07:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*07/14/21 15:29*	*07/15/21 07:29*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/14/21 15:29*	*07/15/21 07:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**528**		5.00		mg/Kg			07/15/21 04:07	1

Client Sample ID: NSW#5@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-41
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:07	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:07	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:07	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		07/14/21 09:47	07/15/21 12:07	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:07	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		07/14/21 09:47	07/15/21 12:07	1
Total BTEX	<0.00399	U F1 F2	0.00399		mg/Kg		07/14/21 09:47	07/15/21 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/14/21 09:47*	*07/15/21 12:07*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/14/21 09:47*	*07/15/21 12:07*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 13:25	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: NSW#5@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-41

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 13:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 13:25	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/14/21 16:17*	*07/15/21 13:25*	*1*
o-Terphenyl	*126*		*70 - 130*	*07/14/21 16:17*	*07/15/21 13:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**450**		5.03		mg/Kg			07/15/21 16:45	1

Client Sample ID: NSW#6@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-42

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/21 09:47	07/15/21 12:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:32	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/21 09:47	07/15/21 12:32	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/14/21 09:47	07/15/21 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/14/21 09:47*	*07/15/21 12:32*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/14/21 09:47*	*07/15/21 12:32*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 14:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 14:27	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 14:27	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/14/21 16:17*	*07/15/21 14:27*	*1*
o-Terphenyl	*123*		*70 - 130*	*07/14/21 16:17*	*07/15/21 14:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**566**		4.97		mg/Kg			07/15/21 16:51	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: SSW#5@9

Lab Sample ID: 890-940-43
Matrix: Solid
Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:47	07/15/21 12:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:47	07/15/21 12:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:47	07/15/21 12:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/14/21 09:47	07/15/21 12:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:47	07/15/21 12:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/14/21 09:47	07/15/21 12:58	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/14/21 09:47	07/15/21 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/14/21 09:47*	*07/15/21 12:58*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/14/21 09:47*	*07/15/21 12:58*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:04	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/14/21 16:17*	*07/15/21 15:04*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/14/21 16:17*	*07/15/21 15:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.6**		4.95		mg/Kg			07/15/21 16:56	1

Client Sample ID: FL#21@5

Lab Sample ID: 890-940-44
Matrix: Solid
Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:47	07/15/21 13:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:47	07/15/21 13:23	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:47	07/15/21 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/14/21 09:47*	*07/15/21 13:23*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/14/21 09:47*	*07/15/21 13:23*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:25	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#21@5

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-44
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:25	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/14/21 16:17*	*07/15/21 15:25*	*1*
o-Terphenyl	*117*		*70 - 130*	*07/14/21 16:17*	*07/15/21 15:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.8**		5.00		mg/Kg			07/15/21 17:25	1

Client Sample ID: FL#22@5

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-45
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:47	07/15/21 13:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:47	07/15/21 13:48	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:47	07/15/21 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*07/14/21 09:47*	*07/15/21 13:48*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/14/21 09:47*	*07/15/21 13:48*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 15:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 15:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 15:46	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/14/21 16:17*	*07/15/21 15:46*	*1*
o-Terphenyl	*116*		*70 - 130*	*07/14/21 16:17*	*07/15/21 15:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**367**		25.1		mg/Kg			07/15/21 17:07	5

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-940-1	WSW#13@4	102	84										
890-940-1 MS	WSW#13@4	107	96										
890-940-2	WSW#14@4	108	107										
890-940-3	WSW#15@4	107	95										
890-940-4	WSW#16@4	110	100										
890-940-5	WSW#17@4	122	107										
890-940-6	WSW#18@4	112	94										
890-940-7	WSW#19@4	102	86										
890-940-8	WSW#20@4	148 S1+	98										
890-940-9	WSW#21@4	122	107										
890-940-10	WSW#22@4	118	103										
890-940-11	WSW#23@4	110	97										
890-940-12	WSW#24@9	121	100										
890-940-13	ESW#9@4	110	104										
890-940-14	ESW#10@4	129	113										
890-940-15	ESW#11@4	103	83										
890-940-16	ESW#12@4	115	102										
890-940-17	ESW#13@4	126	97										
890-940-18	ESW#14@4	111	111										
890-940-19	ESW#15@7	134 S1+	90										
890-940-20	ESW#16@9	141 S1+	107										
890-940-21	FL#33@4	95	91										
890-940-21 MS	FL#33@4	111	104										
890-940-22	FL#34@4	101	93										
890-940-23	FL#35@4	95	86										
890-940-24	FL#36@4	91	94										
890-940-25	FL#37@4	98	90										
890-940-26	FL#38@4 FT 6IN	105	96										
890-940-27	FL#39@4 FT 6 IN	101	93										
890-940-28	FL#40@4	93	92										
890-940-29	FL#41@4	92	92										
890-940-30	FL#42@4	104	91										
890-940-31	FL#43@4	94	91										
890-940-32	FL#44@4	99	91										
890-940-33	FL#45@4	106	88										
890-940-34	FL#46@4	92	91										
890-940-35	FL#47@9	97	87										
890-940-36	FL#48@9	101	82										
890-940-37	FL#49@9	102	66 S1-										
890-940-38	FL#50@9	101	86										
890-940-39	FL#51@9	109	94										
890-940-40	FL#52@9	97	88										
890-940-41	NSW#5@4	116	88										
890-940-41 MS	NSW#5@4	76	96										
890-940-41 MSD	NSW#5@4	84	109										
890-940-42	NSW#6@4	109	103										
890-940-43	SSW#5@9	108	104										
890-940-44	FL#21@5	102	103										
890-940-45	FL#22@5	100	98										

Surrogate Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
LCS 880-5141/1-A	Lab Control Sample	90	90
LCS 880-5142/1-A	Lab Control Sample	100	105
LCS 880-5145/1-A	Lab Control Sample	97	108
LCSD 880-5141/2-A	Lab Control Sample Dup	95	96
LCSD 880-5142/2-A	Lab Control Sample Dup	102	103
LCSD 880-5145/2-A	Lab Control Sample Dup	93	103
MB 880-5141/5-A	Method Blank	107	94
MB 880-5142/5-A	Method Blank	82	98
MB 880-5145/5-A	Method Blank	64 S1-	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID		
890-940-1 MSD	WSW#13@4		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-940-1	WSW#13@4	103	119
890-940-1 MS	WSW#13@4	102	107
890-940-1 MSD	WSW#13@4	101	102
890-940-2	WSW#14@4	107	122
890-940-3	WSW#15@4	107	125
890-940-4	WSW#16@4	110	126
890-940-5	WSW#17@4	106	121
890-940-6	WSW#18@4	107	122
890-940-7	WSW#19@4	107	121
890-940-8	WSW#20@4	104	121
890-940-9	WSW#21@4	110	126
890-940-10	WSW#22@4	105	119
890-940-11	WSW#23@4	107	125
890-940-12	WSW#24@9	103	120
890-940-13	ESW#9@4	108	129
890-940-14	ESW#10@4	106	130
890-940-15	ESW#11@4	99	119
890-940-16	ESW#12@4	102	122
890-940-17	ESW#13@4	105	126
890-940-18	ESW#14@4	109	133 S1+

Surrogate Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-940-19	ESW#15@7	105	125								
890-940-20	ESW#16@9	105	122								
890-940-21	FL#33@4	82	83								
890-940-21 MS	FL#33@4	79	71								
890-940-21 MSD	FL#33@4	88	80								
890-940-22	FL#34@4	85	90								
890-940-23	FL#35@4	97	103								
890-940-24	FL#36@4	88	92								
890-940-25	FL#37@4	101	106								
890-940-26	FL#38@4 FT 6IN	100	108								
890-940-27	FL#39@4 FT 6 IN	88	91								
890-940-28	FL#40@4	89	95								
890-940-29	FL#41@4	87	94								
890-940-30	FL#42@4	105	113								
890-940-31	FL#43@4	101	108								
890-940-32	FL#44@4	86	92								
890-940-33	FL#45@4	87	91								
890-940-34	FL#46@4	98	103								
890-940-35	FL#47@9	87	90								
890-940-36	FL#48@9	86	92								
890-940-37	FL#49@9	101	110								
890-940-38	FL#50@9	97	107								
890-940-39	FL#51@9	101	110								
890-940-40	FL#52@9	99	108								
890-940-41	NSW#5@4	107	126								
890-940-41 MS	NSW#5@4	99	100								
890-940-41 MSD	NSW#5@4	101	106								
890-940-42	NSW#6@4	104	123								
890-940-43	SSW#5@9	98	114								
890-940-44	FL#21@5	104	117								
890-940-45	FL#22@5	98	116								
LCS 880-5193/2-A	Lab Control Sample	107	114								
LCS 880-5194/2-A	Lab Control Sample	105	107								
LCS 880-5199/2-A	Lab Control Sample	100	107								
LCSD 880-5193/3-A	Lab Control Sample Dup	105	119								
LCSD 880-5194/3-A	Lab Control Sample Dup	114	115								
LCSD 880-5199/3-A	Lab Control Sample Dup	103	114								
MB 880-5193/1-A	Method Blank	120	140 S1+								
MB 880-5194/1-A	Method Blank	94	103								
MB 880-5199/1-A	Method Blank	92	108								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5141/5-A
Matrix: Solid
Analysis Batch: 5146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 17:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 17:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 17:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 17:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 17:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 17:36	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 17:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/14/21 09:16*	*07/14/21 17:36*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/14/21 09:16*	*07/14/21 17:36*	*1*

Lab Sample ID: LCS 880-5141/1-A
Matrix: Solid
Analysis Batch: 5146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5141

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08959		mg/Kg		90	70 - 130		
Toluene			0.100	0.07649		mg/Kg		76	70 - 130		
Ethylbenzene			0.100	0.08574		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene			0.200	0.1792		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.08333		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-5141/2-A
Matrix: Solid
Analysis Batch: 5146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5141

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09714		mg/Kg		97	70 - 130	8	35
Toluene			0.100	0.08839		mg/Kg		88	70 - 130	14	35
Ethylbenzene			0.100	0.08845		mg/Kg		88	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1890		mg/Kg		95	70 - 130	5	35
o-Xylene			0.100	0.09022		mg/Kg		90	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-940-1 MSD
Matrix: Solid
Analysis Batch: 5146

Client Sample ID: WSW#13@4
Prep Type: Total/NA
Prep Batch: 5141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.07852		mg/Kg					

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-940-1 MSD
Matrix: Solid
Analysis Batch: 5146

Client Sample ID: WSW#13@4
Prep Type: Total/NA
Prep Batch: 5141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	<0.00201	U	0.100	0.06878		mg/Kg					
Ethylbenzene	<0.00201	U	0.100	0.06972		mg/Kg					
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1489		mg/Kg					
o-Xylene	<0.00201	U	0.100	0.07030		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: MB 880-5142/5-A
Matrix: Solid
Analysis Batch: 5147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 17:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 17:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 17:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 17:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 17:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 17:34	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 17:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*07/14/21 09:20*	*07/14/21 17:34*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/14/21 09:20*	*07/14/21 17:34*	*1*

Lab Sample ID: LCS 880-5142/1-A
Matrix: Solid
Analysis Batch: 5147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09378		mg/Kg		94	70 - 130
Toluene	0.100	0.08776		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.08710		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1755		mg/Kg		88	70 - 130
o-Xylene	0.100	0.08754		mg/Kg		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-5142/2-A
Matrix: Solid
Analysis Batch: 5147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5142

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09098		mg/Kg		91	70 - 130	3	35
Toluene	0.100	0.08729		mg/Kg		87	70 - 130	1	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-5142/2-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 5147
Prep Batch: 5142

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.08921		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1817		mg/Kg		91	70 - 130	3	35
o-Xylene			0.100	0.09062		mg/Kg		91	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 880-5145/5-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 5206
Prep Batch: 5145

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 11:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 11:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 11:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:47	07/15/21 11:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 11:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:47	07/15/21 11:42	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:47	07/15/21 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*07/14/21 09:47*	*07/15/21 11:42*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/14/21 09:47*	*07/15/21 11:42*	*1*

Lab Sample ID: LCS 880-5145/1-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 5206
Prep Batch: 5145

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			0.100	0.09288		mg/Kg		93	70 - 130
Toluene			0.100	0.08881		mg/Kg		89	70 - 130
Ethylbenzene			0.100	0.1006		mg/Kg		101	70 - 130
m-Xylene & p-Xylene			0.200	0.1760		mg/Kg		88	70 - 130
o-Xylene			0.100	0.09177		mg/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-5145/2-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 5206
Prep Batch: 5145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08785		mg/Kg		88	70 - 130	6	35
Toluene			0.100	0.09379		mg/Kg		94	70 - 130	5	35
Ethylbenzene			0.100	0.09612		mg/Kg		96	70 - 130	5	35

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-5145/2-A
Matrix: Solid
Analysis Batch: 5206

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene			0.200	0.1682		mg/Kg		84	70 - 130	5	35
o-Xylene			0.100	0.08780		mg/Kg		88	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-940-41 MS
Matrix: Solid
Analysis Batch: 5206

Client Sample ID: NSW#5@4
Prep Type: Total/NA
Prep Batch: 5145

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.0992	0.03010	F1	mg/Kg		30	70 - 130
Toluene	<0.00200	U F1	0.0992	0.03461	F1	mg/Kg		35	70 - 130
Ethylbenzene	<0.00200	U F1	0.0992	0.03681	F1	mg/Kg		37	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.198	0.06657	F1	mg/Kg		34	70 - 130
o-Xylene	<0.00200	U F1	0.0992	0.03542	F1	mg/Kg		36	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-940-41 MSD
Matrix: Solid
Analysis Batch: 5206

Client Sample ID: NSW#5@4
Prep Type: Total/NA
Prep Batch: 5145

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.101	0.04268	F1	mg/Kg		42	70 - 130	35	35
Toluene	<0.00200	U F1	0.101	0.04214	F1	mg/Kg		42	70 - 130	20	35
Ethylbenzene	<0.00200	U F1	0.101	0.05160	F1	mg/Kg		51	70 - 130	33	35
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.09229	F1	mg/Kg		46	70 - 130	32	35
o-Xylene	<0.00200	U F1	0.101	0.04794	F1	mg/Kg		48	70 - 130	30	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 890-940-1 MS
Matrix: Solid
Analysis Batch: 5146

Client Sample ID: WSW#13@4
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-940-21 MS
Matrix: Solid
Analysis Batch: 5147

Client Sample ID: FL#33@4
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-5193/1-A
Matrix: Solid
Analysis Batch: 5176

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 22:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 22:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 22:55	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 22:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	07/14/21 15:14	07/14/21 22:55	1
o-Terphenyl	140	S1+	70 - 130	07/14/21 15:14	07/14/21 22:55	1

Lab Sample ID: LCS 880-5193/2-A
Matrix: Solid
Analysis Batch: 5176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	764.3		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	1000	926.6		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-5193/3-A
Matrix: Solid
Analysis Batch: 5176

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5193

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	747.2		mg/Kg		75	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	953.5		mg/Kg		95	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	119		70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-940-1 MS
Matrix: Solid
Analysis Batch: 5176

Client Sample ID: WSW#13@4
Prep Type: Total/NA
Prep Batch: 5193

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	932.3		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1223		mg/Kg		121	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: 890-940-1 MSD
Matrix: Solid
Analysis Batch: 5176

Client Sample ID: WSW#13@4
Prep Type: Total/NA
Prep Batch: 5193

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	999.2		mg/Kg		100	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1183		mg/Kg		117	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: MB 880-5194/1-A
Matrix: Solid
Analysis Batch: 5179

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/14/21 22:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/14/21 22:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/14/21 22:55	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/14/21 22:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/14/21 15:29*	*07/14/21 22:55*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/14/21 15:29*	*07/14/21 22:55*	*1*

Lab Sample ID: LCS 880-5194/2-A
Matrix: Solid
Analysis Batch: 5179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	802.1		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	945.9		mg/Kg		95	70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-5194/2-A
Matrix: Solid
Analysis Batch: 5179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5194

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: LCSD 880-5194/3-A
Matrix: Solid
Analysis Batch: 5179

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5194

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	902.1		mg/Kg		90	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1036		mg/Kg		104	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-940-21 MS
Matrix: Solid
Analysis Batch: 5179

Client Sample ID: FL#33@4
Prep Type: Total/NA
Prep Batch: 5194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	996	653.0	F1	mg/Kg		66	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	996	862.5		mg/Kg		87	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	71		70 - 130

Lab Sample ID: 890-940-21 MSD
Matrix: Solid
Analysis Batch: 5179

Client Sample ID: FL#33@4
Prep Type: Total/NA
Prep Batch: 5194

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	996	776.6		mg/Kg		78	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	985.6		mg/Kg		99	70 - 130	13	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	80		70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-5199/1-A
Matrix: Solid
Analysis Batch: 5214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 12:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 12:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 12:23	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 12:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/14/21 16:17*	*07/15/21 12:23*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/14/21 16:17*	*07/15/21 12:23*	*1*

Lab Sample ID: LCS 880-5199/2-A
Matrix: Solid
Analysis Batch: 5214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5199

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	768.2		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	906.9		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: LCSD 880-5199/3-A
Matrix: Solid
Analysis Batch: 5214

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5199

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	770.2		mg/Kg		77	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	941.3		mg/Kg		94	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*114*		*70 - 130*

Lab Sample ID: 890-940-41 MS
Matrix: Solid
Analysis Batch: 5214

Client Sample ID: NSW#5@4
Prep Type: Total/NA
Prep Batch: 5199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	903.3		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1104		mg/Kg		111	70 - 130		

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-940-41 MS
Matrix: Solid
Analysis Batch: 5214

Client Sample ID: NSW#5@4
Prep Type: Total/NA
Prep Batch: 5199

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 890-940-41 MSD
Matrix: Solid
Analysis Batch: 5214

Client Sample ID: NSW#5@4
Prep Type: Total/NA
Prep Batch: 5199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	924.0		mg/Kg		93	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1156		mg/Kg		116	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5185/1-A
Matrix: Solid
Analysis Batch: 5201

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/15/21 01:25	1

Lab Sample ID: LCS 880-5185/2-A
Matrix: Solid
Analysis Batch: 5201

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	259.7		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-5185/3-A
Matrix: Solid
Analysis Batch: 5201

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	260.3		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-940-21 MS
Matrix: Solid
Analysis Batch: 5201

Client Sample ID: FL#33@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	133		249	388.2		mg/Kg		102	90 - 110

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-940-21 MSD
Matrix: Solid
Analysis Batch: 5201

Client Sample ID: FL#33@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	133		249	388.8		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-940-31 MS
Matrix: Solid
Analysis Batch: 5201

Client Sample ID: FL#43@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	68.6		249	336.3		mg/Kg		108	90 - 110

Lab Sample ID: 890-940-31 MSD
Matrix: Solid
Analysis Batch: 5201

Client Sample ID: FL#43@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	68.6		249	336.6		mg/Kg		108	90 - 110	0	20

Lab Sample ID: MB 880-5184/1-A
Matrix: Solid
Analysis Batch: 5202

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/15/21 07:30	1

Lab Sample ID: LCS 880-5184/2-A
Matrix: Solid
Analysis Batch: 5202

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	261.7		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-5184/3-A
Matrix: Solid
Analysis Batch: 5202

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	252	264.3		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-940-1 MS
Matrix: Solid
Analysis Batch: 5202

Client Sample ID: WSW#13@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	459		250	707.6		mg/Kg		100	90 - 110

Lab Sample ID: 890-940-1 MSD
Matrix: Solid
Analysis Batch: 5202

Client Sample ID: WSW#13@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	459		250	708.0		mg/Kg		100	90 - 110	0	20

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-940-11 MS
Matrix: Solid
Analysis Batch: 5202

Client Sample ID: WSW#23@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	98.0		249	362.3		mg/Kg		106	90 - 110

Lab Sample ID: 890-940-11 MSD
Matrix: Solid
Analysis Batch: 5202

Client Sample ID: WSW#23@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	98.0		249	366.5		mg/Kg		108	90 - 110	1	20

Lab Sample ID: MB 880-5186/1-A
Matrix: Solid
Analysis Batch: 5221

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/15/21 13:32	1

Lab Sample ID: LCS 880-5186/2-A
Matrix: Solid
Analysis Batch: 5221

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	259.1		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-5186/3-A
Matrix: Solid
Analysis Batch: 5221

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	259.1		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

GC VOA

Prep Batch: 5141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-1	WSW#13@4	Total/NA	Solid	5035	
890-940-2	WSW#14@4	Total/NA	Solid	5035	
890-940-3	WSW#15@4	Total/NA	Solid	5035	
890-940-4	WSW#16@4	Total/NA	Solid	5035	
890-940-5	WSW#17@4	Total/NA	Solid	5035	
890-940-6	WSW#18@4	Total/NA	Solid	5035	
890-940-7	WSW#19@4	Total/NA	Solid	5035	
890-940-8	WSW#20@4	Total/NA	Solid	5035	
890-940-9	WSW#21@4	Total/NA	Solid	5035	
890-940-10	WSW#22@4	Total/NA	Solid	5035	
890-940-11	WSW#23@4	Total/NA	Solid	5035	
890-940-12	WSW#24@9	Total/NA	Solid	5035	
890-940-13	ESW#9@4	Total/NA	Solid	5035	
890-940-14	ESW#10@4	Total/NA	Solid	5035	
890-940-15	ESW#11@4	Total/NA	Solid	5035	
890-940-16	ESW#12@4	Total/NA	Solid	5035	
890-940-17	ESW#13@4	Total/NA	Solid	5035	
890-940-18	ESW#14@4	Total/NA	Solid	5035	
890-940-19	ESW#15@7	Total/NA	Solid	5035	
890-940-20	ESW#16@9	Total/NA	Solid	5035	
MB 880-5141/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5141/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5141/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-940-1 MSD	WSW#13@4	Total/NA	Solid	5035	

Prep Batch: 5142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-21	FL#33@4	Total/NA	Solid	5035	
890-940-22	FL#34@4	Total/NA	Solid	5035	
890-940-23	FL#35@4	Total/NA	Solid	5035	
890-940-24	FL#36@4	Total/NA	Solid	5035	
890-940-25	FL#37@4	Total/NA	Solid	5035	
890-940-26	FL#38@4 FT 6IN	Total/NA	Solid	5035	
890-940-27	FL#39@4 FT 6 IN	Total/NA	Solid	5035	
890-940-28	FL#40@4	Total/NA	Solid	5035	
890-940-29	FL#41@4	Total/NA	Solid	5035	
890-940-30	FL#42@4	Total/NA	Solid	5035	
890-940-31	FL#43@4	Total/NA	Solid	5035	
890-940-32	FL#44@4	Total/NA	Solid	5035	
890-940-33	FL#45@4	Total/NA	Solid	5035	
890-940-34	FL#46@4	Total/NA	Solid	5035	
890-940-35	FL#47@9	Total/NA	Solid	5035	
890-940-36	FL#48@9	Total/NA	Solid	5035	
890-940-37	FL#49@9	Total/NA	Solid	5035	
890-940-38	FL#50@9	Total/NA	Solid	5035	
890-940-39	FL#51@9	Total/NA	Solid	5035	
890-940-40	FL#52@9	Total/NA	Solid	5035	
MB 880-5142/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5142/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5142/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

GC VOA

Prep Batch: 5145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-41	NSW#5@4	Total/NA	Solid	5035	
890-940-42	NSW#6@4	Total/NA	Solid	5035	
890-940-43	SSW#5@9	Total/NA	Solid	5035	
890-940-44	FL#21@5	Total/NA	Solid	5035	
890-940-45	FL#22@5	Total/NA	Solid	5035	
MB 880-5145/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5145/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5145/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-940-41 MS	NSW#5@4	Total/NA	Solid	5035	
890-940-41 MSD	NSW#5@4	Total/NA	Solid	5035	

Analysis Batch: 5146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-1	WSW#13@4	Total/NA	Solid	8021B	5141
890-940-2	WSW#14@4	Total/NA	Solid	8021B	5141
890-940-3	WSW#15@4	Total/NA	Solid	8021B	5141
890-940-4	WSW#16@4	Total/NA	Solid	8021B	5141
890-940-5	WSW#17@4	Total/NA	Solid	8021B	5141
890-940-6	WSW#18@4	Total/NA	Solid	8021B	5141
890-940-7	WSW#19@4	Total/NA	Solid	8021B	5141
890-940-8	WSW#20@4	Total/NA	Solid	8021B	5141
890-940-9	WSW#21@4	Total/NA	Solid	8021B	5141
890-940-10	WSW#22@4	Total/NA	Solid	8021B	5141
890-940-11	WSW#23@4	Total/NA	Solid	8021B	5141
890-940-12	WSW#24@9	Total/NA	Solid	8021B	5141
890-940-13	ESW#9@4	Total/NA	Solid	8021B	5141
890-940-14	ESW#10@4	Total/NA	Solid	8021B	5141
890-940-15	ESW#11@4	Total/NA	Solid	8021B	5141
890-940-16	ESW#12@4	Total/NA	Solid	8021B	5141
890-940-17	ESW#13@4	Total/NA	Solid	8021B	5141
890-940-18	ESW#14@4	Total/NA	Solid	8021B	5141
890-940-19	ESW#15@7	Total/NA	Solid	8021B	5141
890-940-20	ESW#16@9	Total/NA	Solid	8021B	5141
MB 880-5141/5-A	Method Blank	Total/NA	Solid	8021B	5141
LCS 880-5141/1-A	Lab Control Sample	Total/NA	Solid	8021B	5141
LCSD 880-5141/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5141
890-940-1 MS	WSW#13@4	Total/NA	Solid	8021B	
890-940-1 MSD	WSW#13@4	Total/NA	Solid	8021B	5141

Analysis Batch: 5147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-21	FL#33@4	Total/NA	Solid	8021B	5142
890-940-22	FL#34@4	Total/NA	Solid	8021B	5142
890-940-23	FL#35@4	Total/NA	Solid	8021B	5142
890-940-24	FL#36@4	Total/NA	Solid	8021B	5142
890-940-25	FL#37@4	Total/NA	Solid	8021B	5142
890-940-26	FL#38@4 FT 6IN	Total/NA	Solid	8021B	5142
890-940-27	FL#39@4 FT 6 IN	Total/NA	Solid	8021B	5142
890-940-28	FL#40@4	Total/NA	Solid	8021B	5142
890-940-29	FL#41@4	Total/NA	Solid	8021B	5142
890-940-30	FL#42@4	Total/NA	Solid	8021B	5142

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

GC VOA (Continued)

Analysis Batch: 5147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-31	FL#43@4	Total/NA	Solid	8021B	5142
890-940-32	FL#44@4	Total/NA	Solid	8021B	5142
890-940-33	FL#45@4	Total/NA	Solid	8021B	5142
890-940-34	FL#46@4	Total/NA	Solid	8021B	5142
890-940-35	FL#47@9	Total/NA	Solid	8021B	5142
890-940-36	FL#48@9	Total/NA	Solid	8021B	5142
890-940-37	FL#49@9	Total/NA	Solid	8021B	5142
890-940-38	FL#50@9	Total/NA	Solid	8021B	5142
890-940-39	FL#51@9	Total/NA	Solid	8021B	5142
890-940-40	FL#52@9	Total/NA	Solid	8021B	5142
MB 880-5142/5-A	Method Blank	Total/NA	Solid	8021B	5142
LCS 880-5142/1-A	Lab Control Sample	Total/NA	Solid	8021B	5142
LCSD 880-5142/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5142
890-940-21 MS	FL#33@4	Total/NA	Solid	8021B	

Analysis Batch: 5206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-41	NSW#5@4	Total/NA	Solid	8021B	5145
890-940-42	NSW#6@4	Total/NA	Solid	8021B	5145
890-940-43	SSW#5@9	Total/NA	Solid	8021B	5145
890-940-44	FL#21@5	Total/NA	Solid	8021B	5145
890-940-45	FL#22@5	Total/NA	Solid	8021B	5145
MB 880-5145/5-A	Method Blank	Total/NA	Solid	8021B	5145
LCS 880-5145/1-A	Lab Control Sample	Total/NA	Solid	8021B	5145
LCSD 880-5145/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5145
890-940-41 MS	NSW#5@4	Total/NA	Solid	8021B	5145
890-940-41 MSD	NSW#5@4	Total/NA	Solid	8021B	5145

GC Semi VOA

Analysis Batch: 5176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-1	WSW#13@4	Total/NA	Solid	8015B NM	5193
890-940-2	WSW#14@4	Total/NA	Solid	8015B NM	5193
890-940-3	WSW#15@4	Total/NA	Solid	8015B NM	5193
890-940-4	WSW#16@4	Total/NA	Solid	8015B NM	5193
890-940-5	WSW#17@4	Total/NA	Solid	8015B NM	5193
890-940-6	WSW#18@4	Total/NA	Solid	8015B NM	5193
890-940-7	WSW#19@4	Total/NA	Solid	8015B NM	5193
890-940-8	WSW#20@4	Total/NA	Solid	8015B NM	5193
890-940-9	WSW#21@4	Total/NA	Solid	8015B NM	5193
890-940-10	WSW#22@4	Total/NA	Solid	8015B NM	5193
890-940-11	WSW#23@4	Total/NA	Solid	8015B NM	5193
890-940-12	WSW#24@9	Total/NA	Solid	8015B NM	5193
890-940-13	ESW#9@4	Total/NA	Solid	8015B NM	5193
890-940-14	ESW#10@4	Total/NA	Solid	8015B NM	5193
890-940-15	ESW#11@4	Total/NA	Solid	8015B NM	5193
890-940-16	ESW#12@4	Total/NA	Solid	8015B NM	5193
890-940-17	ESW#13@4	Total/NA	Solid	8015B NM	5193
890-940-18	ESW#14@4	Total/NA	Solid	8015B NM	5193
890-940-19	ESW#15@7	Total/NA	Solid	8015B NM	5193

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

GC Semi VOA (Continued)

Analysis Batch: 5176 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-20	ESW#16@9	Total/NA	Solid	8015B NM	5193
MB 880-5193/1-A	Method Blank	Total/NA	Solid	8015B NM	5193
LCS 880-5193/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5193
LCSD 880-5193/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5193
890-940-1 MS	WSW#13@4	Total/NA	Solid	8015B NM	5193
890-940-1 MSD	WSW#13@4	Total/NA	Solid	8015B NM	5193

Analysis Batch: 5179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-21	FL#33@4	Total/NA	Solid	8015B NM	5194
890-940-22	FL#34@4	Total/NA	Solid	8015B NM	5194
890-940-23	FL#35@4	Total/NA	Solid	8015B NM	5194
890-940-24	FL#36@4	Total/NA	Solid	8015B NM	5194
890-940-25	FL#37@4	Total/NA	Solid	8015B NM	5194
890-940-26	FL#38@4 FT 6IN	Total/NA	Solid	8015B NM	5194
890-940-27	FL#39@4 FT 6 IN	Total/NA	Solid	8015B NM	5194
890-940-28	FL#40@4	Total/NA	Solid	8015B NM	5194
890-940-29	FL#41@4	Total/NA	Solid	8015B NM	5194
890-940-30	FL#42@4	Total/NA	Solid	8015B NM	5194
890-940-31	FL#43@4	Total/NA	Solid	8015B NM	5194
890-940-32	FL#44@4	Total/NA	Solid	8015B NM	5194
890-940-33	FL#45@4	Total/NA	Solid	8015B NM	5194
890-940-34	FL#46@4	Total/NA	Solid	8015B NM	5194
890-940-35	FL#47@9	Total/NA	Solid	8015B NM	5194
890-940-36	FL#48@9	Total/NA	Solid	8015B NM	5194
890-940-37	FL#49@9	Total/NA	Solid	8015B NM	5194
890-940-38	FL#50@9	Total/NA	Solid	8015B NM	5194
890-940-39	FL#51@9	Total/NA	Solid	8015B NM	5194
890-940-40	FL#52@9	Total/NA	Solid	8015B NM	5194
MB 880-5194/1-A	Method Blank	Total/NA	Solid	8015B NM	5194
LCS 880-5194/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5194
LCSD 880-5194/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5194
890-940-21 MS	FL#33@4	Total/NA	Solid	8015B NM	5194
890-940-21 MSD	FL#33@4	Total/NA	Solid	8015B NM	5194

Prep Batch: 5193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-1	WSW#13@4	Total/NA	Solid	8015NM Prep	
890-940-2	WSW#14@4	Total/NA	Solid	8015NM Prep	
890-940-3	WSW#15@4	Total/NA	Solid	8015NM Prep	
890-940-4	WSW#16@4	Total/NA	Solid	8015NM Prep	
890-940-5	WSW#17@4	Total/NA	Solid	8015NM Prep	
890-940-6	WSW#18@4	Total/NA	Solid	8015NM Prep	
890-940-7	WSW#19@4	Total/NA	Solid	8015NM Prep	
890-940-8	WSW#20@4	Total/NA	Solid	8015NM Prep	
890-940-9	WSW#21@4	Total/NA	Solid	8015NM Prep	
890-940-10	WSW#22@4	Total/NA	Solid	8015NM Prep	
890-940-11	WSW#23@4	Total/NA	Solid	8015NM Prep	
890-940-12	WSW#24@9	Total/NA	Solid	8015NM Prep	
890-940-13	ESW#9@4	Total/NA	Solid	8015NM Prep	
890-940-14	ESW#10@4	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

GC Semi VOA (Continued)

Prep Batch: 5193 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-15	ESW#11@4	Total/NA	Solid	8015NM Prep	
890-940-16	ESW#12@4	Total/NA	Solid	8015NM Prep	
890-940-17	ESW#13@4	Total/NA	Solid	8015NM Prep	
890-940-18	ESW#14@4	Total/NA	Solid	8015NM Prep	
890-940-19	ESW#15@7	Total/NA	Solid	8015NM Prep	
890-940-20	ESW#16@9	Total/NA	Solid	8015NM Prep	
MB 880-5193/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5193/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5193/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-940-1 MS	WSW#13@4	Total/NA	Solid	8015NM Prep	
890-940-1 MSD	WSW#13@4	Total/NA	Solid	8015NM Prep	

Prep Batch: 5194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-21	FL#33@4	Total/NA	Solid	8015NM Prep	
890-940-22	FL#34@4	Total/NA	Solid	8015NM Prep	
890-940-23	FL#35@4	Total/NA	Solid	8015NM Prep	
890-940-24	FL#36@4	Total/NA	Solid	8015NM Prep	
890-940-25	FL#37@4	Total/NA	Solid	8015NM Prep	
890-940-26	FL#38@4 FT 6IN	Total/NA	Solid	8015NM Prep	
890-940-27	FL#39@4 FT 6 IN	Total/NA	Solid	8015NM Prep	
890-940-28	FL#40@4	Total/NA	Solid	8015NM Prep	
890-940-29	FL#41@4	Total/NA	Solid	8015NM Prep	
890-940-30	FL#42@4	Total/NA	Solid	8015NM Prep	
890-940-31	FL#43@4	Total/NA	Solid	8015NM Prep	
890-940-32	FL#44@4	Total/NA	Solid	8015NM Prep	
890-940-33	FL#45@4	Total/NA	Solid	8015NM Prep	
890-940-34	FL#46@4	Total/NA	Solid	8015NM Prep	
890-940-35	FL#47@9	Total/NA	Solid	8015NM Prep	
890-940-36	FL#48@9	Total/NA	Solid	8015NM Prep	
890-940-37	FL#49@9	Total/NA	Solid	8015NM Prep	
890-940-38	FL#50@9	Total/NA	Solid	8015NM Prep	
890-940-39	FL#51@9	Total/NA	Solid	8015NM Prep	
890-940-40	FL#52@9	Total/NA	Solid	8015NM Prep	
MB 880-5194/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5194/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5194/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-940-21 MS	FL#33@4	Total/NA	Solid	8015NM Prep	
890-940-21 MSD	FL#33@4	Total/NA	Solid	8015NM Prep	

Prep Batch: 5199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-41	NSW#5@4	Total/NA	Solid	8015NM Prep	
890-940-42	NSW#6@4	Total/NA	Solid	8015NM Prep	
890-940-43	SSW#5@9	Total/NA	Solid	8015NM Prep	
890-940-44	FL#21@5	Total/NA	Solid	8015NM Prep	
890-940-45	FL#22@5	Total/NA	Solid	8015NM Prep	
MB 880-5199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-940-41 MS	NSW#5@4	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

GC Semi VOA (Continued)

Prep Batch: 5199 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-41 MSD	NSW#5@4	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-41	NSW#5@4	Total/NA	Solid	8015B NM	5199
890-940-42	NSW#6@4	Total/NA	Solid	8015B NM	5199
890-940-43	SSW#5@9	Total/NA	Solid	8015B NM	5199
890-940-44	FL#21@5	Total/NA	Solid	8015B NM	5199
890-940-45	FL#22@5	Total/NA	Solid	8015B NM	5199
MB 880-5199/1-A	Method Blank	Total/NA	Solid	8015B NM	5199
LCS 880-5199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5199
LCSD 880-5199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5199
890-940-41 MS	NSW#5@4	Total/NA	Solid	8015B NM	5199
890-940-41 MSD	NSW#5@4	Total/NA	Solid	8015B NM	5199

HPLC/IC

Leach Batch: 5184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-1	WSW#13@4	Soluble	Solid	DI Leach	
890-940-2	WSW#14@4	Soluble	Solid	DI Leach	
890-940-3	WSW#15@4	Soluble	Solid	DI Leach	
890-940-4	WSW#16@4	Soluble	Solid	DI Leach	
890-940-5	WSW#17@4	Soluble	Solid	DI Leach	
890-940-6	WSW#18@4	Soluble	Solid	DI Leach	
890-940-7	WSW#19@4	Soluble	Solid	DI Leach	
890-940-8	WSW#20@4	Soluble	Solid	DI Leach	
890-940-9	WSW#21@4	Soluble	Solid	DI Leach	
890-940-10	WSW#22@4	Soluble	Solid	DI Leach	
890-940-11	WSW#23@4	Soluble	Solid	DI Leach	
890-940-12	WSW#24@9	Soluble	Solid	DI Leach	
890-940-13	ESW#9@4	Soluble	Solid	DI Leach	
890-940-14	ESW#10@4	Soluble	Solid	DI Leach	
890-940-15	ESW#11@4	Soluble	Solid	DI Leach	
890-940-16	ESW#12@4	Soluble	Solid	DI Leach	
890-940-17	ESW#13@4	Soluble	Solid	DI Leach	
890-940-18	ESW#14@4	Soluble	Solid	DI Leach	
890-940-19	ESW#15@7	Soluble	Solid	DI Leach	
890-940-20	ESW#16@9	Soluble	Solid	DI Leach	
MB 880-5184/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5184/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5184/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-940-1 MS	WSW#13@4	Soluble	Solid	DI Leach	
890-940-1 MSD	WSW#13@4	Soluble	Solid	DI Leach	
890-940-11 MS	WSW#23@4	Soluble	Solid	DI Leach	
890-940-11 MSD	WSW#23@4	Soluble	Solid	DI Leach	

Leach Batch: 5185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-21	FL#33@4	Soluble	Solid	DI Leach	
890-940-22	FL#34@4	Soluble	Solid	DI Leach	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

HPLC/IC (Continued)

Leach Batch: 5185 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-23	FL#35@4	Soluble	Solid	DI Leach	
890-940-24	FL#36@4	Soluble	Solid	DI Leach	
890-940-25	FL#37@4	Soluble	Solid	DI Leach	
890-940-26	FL#38@4 FT 6IN	Soluble	Solid	DI Leach	
890-940-27	FL#39@4 FT 6 IN	Soluble	Solid	DI Leach	
890-940-28	FL#40@4	Soluble	Solid	DI Leach	
890-940-29	FL#41@4	Soluble	Solid	DI Leach	
890-940-30	FL#42@4	Soluble	Solid	DI Leach	
890-940-31	FL#43@4	Soluble	Solid	DI Leach	
890-940-32	FL#44@4	Soluble	Solid	DI Leach	
890-940-33	FL#45@4	Soluble	Solid	DI Leach	
890-940-34	FL#46@4	Soluble	Solid	DI Leach	
890-940-35	FL#47@9	Soluble	Solid	DI Leach	
890-940-36	FL#48@9	Soluble	Solid	DI Leach	
890-940-37	FL#49@9	Soluble	Solid	DI Leach	
890-940-38	FL#50@9	Soluble	Solid	DI Leach	
890-940-39	FL#51@9	Soluble	Solid	DI Leach	
890-940-40	FL#52@9	Soluble	Solid	DI Leach	
MB 880-5185/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5185/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5185/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-940-21 MS	FL#33@4	Soluble	Solid	DI Leach	
890-940-21 MSD	FL#33@4	Soluble	Solid	DI Leach	
890-940-31 MS	FL#43@4	Soluble	Solid	DI Leach	
890-940-31 MSD	FL#43@4	Soluble	Solid	DI Leach	

Leach Batch: 5186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-41	NSW#5@4	Soluble	Solid	DI Leach	
890-940-42	NSW#6@4	Soluble	Solid	DI Leach	
890-940-43	SSW#5@9	Soluble	Solid	DI Leach	
890-940-44	FL#21@5	Soluble	Solid	DI Leach	
890-940-45	FL#22@5	Soluble	Solid	DI Leach	
MB 880-5186/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5186/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5186/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 5201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-21	FL#33@4	Soluble	Solid	300.0	5185
890-940-22	FL#34@4	Soluble	Solid	300.0	5185
890-940-23	FL#35@4	Soluble	Solid	300.0	5185
890-940-24	FL#36@4	Soluble	Solid	300.0	5185
890-940-25	FL#37@4	Soluble	Solid	300.0	5185
890-940-26	FL#38@4 FT 6IN	Soluble	Solid	300.0	5185
890-940-27	FL#39@4 FT 6 IN	Soluble	Solid	300.0	5185
890-940-28	FL#40@4	Soluble	Solid	300.0	5185
890-940-29	FL#41@4	Soluble	Solid	300.0	5185
890-940-30	FL#42@4	Soluble	Solid	300.0	5185
890-940-31	FL#43@4	Soluble	Solid	300.0	5185
890-940-32	FL#44@4	Soluble	Solid	300.0	5185

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

HPLC/IC (Continued)

Analysis Batch: 5201 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-33	FL#45@4	Soluble	Solid	300.0	5185
890-940-34	FL#46@4	Soluble	Solid	300.0	5185
890-940-35	FL#47@9	Soluble	Solid	300.0	5185
890-940-36	FL#48@9	Soluble	Solid	300.0	5185
890-940-37	FL#49@9	Soluble	Solid	300.0	5185
890-940-38	FL#50@9	Soluble	Solid	300.0	5185
890-940-39	FL#51@9	Soluble	Solid	300.0	5185
890-940-40	FL#52@9	Soluble	Solid	300.0	5185
MB 880-5185/1-A	Method Blank	Soluble	Solid	300.0	5185
LCS 880-5185/2-A	Lab Control Sample	Soluble	Solid	300.0	5185
LCSD 880-5185/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5185
890-940-21 MS	FL#33@4	Soluble	Solid	300.0	5185
890-940-21 MSD	FL#33@4	Soluble	Solid	300.0	5185
890-940-31 MS	FL#43@4	Soluble	Solid	300.0	5185
890-940-31 MSD	FL#43@4	Soluble	Solid	300.0	5185

Analysis Batch: 5202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-1	WSW#13@4	Soluble	Solid	300.0	5184
890-940-2	WSW#14@4	Soluble	Solid	300.0	5184
890-940-3	WSW#15@4	Soluble	Solid	300.0	5184
890-940-4	WSW#16@4	Soluble	Solid	300.0	5184
890-940-5	WSW#17@4	Soluble	Solid	300.0	5184
890-940-6	WSW#18@4	Soluble	Solid	300.0	5184
890-940-7	WSW#19@4	Soluble	Solid	300.0	5184
890-940-8	WSW#20@4	Soluble	Solid	300.0	5184
890-940-9	WSW#21@4	Soluble	Solid	300.0	5184
890-940-10	WSW#22@4	Soluble	Solid	300.0	5184
890-940-11	WSW#23@4	Soluble	Solid	300.0	5184
890-940-12	WSW#24@9	Soluble	Solid	300.0	5184
890-940-13	ESW#9@4	Soluble	Solid	300.0	5184
890-940-14	ESW#10@4	Soluble	Solid	300.0	5184
890-940-15	ESW#11@4	Soluble	Solid	300.0	5184
890-940-16	ESW#12@4	Soluble	Solid	300.0	5184
890-940-17	ESW#13@4	Soluble	Solid	300.0	5184
890-940-18	ESW#14@4	Soluble	Solid	300.0	5184
890-940-19	ESW#15@7	Soluble	Solid	300.0	5184
890-940-20	ESW#16@9	Soluble	Solid	300.0	5184
MB 880-5184/1-A	Method Blank	Soluble	Solid	300.0	5184
LCS 880-5184/2-A	Lab Control Sample	Soluble	Solid	300.0	5184
LCSD 880-5184/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5184
890-940-1 MS	WSW#13@4	Soluble	Solid	300.0	5184
890-940-1 MSD	WSW#13@4	Soluble	Solid	300.0	5184
890-940-11 MS	WSW#23@4	Soluble	Solid	300.0	5184
890-940-11 MSD	WSW#23@4	Soluble	Solid	300.0	5184

Analysis Batch: 5221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-41	NSW#5@4	Soluble	Solid	300.0	5186
890-940-42	NSW#6@4	Soluble	Solid	300.0	5186
890-940-43	SSW#5@9	Soluble	Solid	300.0	5186

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

HPLC/IC (Continued)

Analysis Batch: 5221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-44	FL#21@5	Soluble	Solid	300.0	5186
890-940-45	FL#22@5	Soluble	Solid	300.0	5186
MB 880-5186/1-A	Method Blank	Soluble	Solid	300.0	5186
LCS 880-5186/2-A	Lab Control Sample	Soluble	Solid	300.0	5186
LCSD 880-5186/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5186

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: WSW#13@4
Lab Sample ID: 890-940-1
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 17:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/14/21 23:57	AM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 07:46	CH	XEN MID

Client Sample ID: WSW#14@4
Lab Sample ID: 890-940-2
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 18:18	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 00:59	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:02	CH	XEN MID

Client Sample ID: WSW#15@4
Lab Sample ID: 890-940-3
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 18:39	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 01:19	AM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:07	CH	XEN MID

Client Sample ID: WSW#16@4
Lab Sample ID: 890-940-4
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 19:00	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 01:40	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:13	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: WSW#17@4

Lab Sample ID: 890-940-5
Matrix: Solid
Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 19:20	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 02:00	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:18	CH	XEN MID

Client Sample ID: WSW#18@4

Lab Sample ID: 890-940-6
Matrix: Solid
Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 19:41	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 02:21	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:34	CH	XEN MID

Client Sample ID: WSW#19@4

Lab Sample ID: 890-940-7
Matrix: Solid
Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 20:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 02:42	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:40	CH	XEN MID

Client Sample ID: WSW#20@4

Lab Sample ID: 890-940-8
Matrix: Solid
Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 20:22	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 03:02	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:45	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: WSW#21@4
Lab Sample ID: 890-940-9
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 20:43	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 03:23	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:50	CH	XEN MID

Client Sample ID: WSW#22@4
Lab Sample ID: 890-940-10
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 21:04	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 03:43	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:56	CH	XEN MID

Client Sample ID: WSW#23@4
Lab Sample ID: 890-940-11
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 22:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 04:25	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 09:01	CH	XEN MID

Client Sample ID: WSW#24@9
Lab Sample ID: 890-940-12
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 22:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 04:45	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 11:36	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: ESW#9@4
Lab Sample ID: 890-940-13
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 23:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 05:06	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 11:41	CH	XEN MID

Client Sample ID: ESW#10@4
Lab Sample ID: 890-940-14
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 23:29	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 05:26	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 11:58	CH	XEN MID

Client Sample ID: ESW#11@4
Lab Sample ID: 890-940-15
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 23:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 05:47	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 12:03	CH	XEN MID

Client Sample ID: ESW#12@4
Lab Sample ID: 890-940-16
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 00:10	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 06:08	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 12:09	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: ESW#13@4
Lab Sample ID: 890-940-17
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 00:31	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 06:28	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 12:14	CH	XEN MID

Client Sample ID: ESW#14@4
Lab Sample ID: 890-940-18
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 00:52	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 06:49	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 12:19	CH	XEN MID

Client Sample ID: ESW#15@7
Lab Sample ID: 890-940-19
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 01:12	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 07:09	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 12:25	CH	XEN MID

Client Sample ID: ESW#16@9
Lab Sample ID: 890-940-20
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 01:33	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 07:29	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 12:30	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL#33@4
Lab Sample ID: 890-940-21
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 17:55	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/14/21 23:57	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 01:41	CH	XEN MID

Client Sample ID: FL#34@4
Lab Sample ID: 890-940-22
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 18:16	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 00:59	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 01:57	CH	XEN MID

Client Sample ID: FL#35@4
Lab Sample ID: 890-940-23
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 18:36	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 01:19	AM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:03	CH	XEN MID

Client Sample ID: FL#36@4
Lab Sample ID: 890-940-24
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 18:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 01:40	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:08	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL#37@4
Lab Sample ID: 890-940-25
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 19:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 02:00	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:14	CH	XEN MID

Client Sample ID: FL#38@4 FT 6IN
Lab Sample ID: 890-940-26
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 19:37	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 02:21	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:30	CH	XEN MID

Client Sample ID: FL#39@4 FT 6 IN
Lab Sample ID: 890-940-27
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 19:58	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 02:42	AM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:35	CH	XEN MID

Client Sample ID: FL#40@4
Lab Sample ID: 890-940-28
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 20:18	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 03:02	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:41	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL#41@4
Lab Sample ID: 890-940-29
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 20:39	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 03:23	AM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:46	CH	XEN MID

Client Sample ID: FL#42@4
Lab Sample ID: 890-940-30
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 20:59	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 03:43	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:51	CH	XEN MID

Client Sample ID: FL#43@4
Lab Sample ID: 890-940-31
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 22:20	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 04:25	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:57	CH	XEN MID

Client Sample ID: FL#44@4
Lab Sample ID: 890-940-32
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 22:41	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 04:45	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 03:13	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL#45@4
Lab Sample ID: 890-940-33
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 23:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 05:06	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 03:18	CH	XEN MID

Client Sample ID: FL#46@4
Lab Sample ID: 890-940-34
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 23:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 05:26	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 03:34	CH	XEN MID

Client Sample ID: FL#47@9
Lab Sample ID: 890-940-35
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 23:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 05:47	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 03:40	CH	XEN MID

Client Sample ID: FL#48@9
Lab Sample ID: 890-940-36
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/15/21 00:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 06:08	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 03:45	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL#49@9
Lab Sample ID: 890-940-37
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/15/21 00:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 06:28	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 03:51	CH	XEN MID

Client Sample ID: FL#50@9
Lab Sample ID: 890-940-38
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/15/21 00:43	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 06:49	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 03:56	CH	XEN MID

Client Sample ID: FL#51@9
Lab Sample ID: 890-940-39
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/15/21 01:03	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 07:09	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 04:01	CH	XEN MID

Client Sample ID: FL#52@9
Lab Sample ID: 890-940-40
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/15/21 01:24	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 07:29	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 04:07	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: NSW#5@4
Lab Sample ID: 890-940-41
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5206	07/15/21 12:07	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 13:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	5186	07/14/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			5221	07/15/21 16:45	CH	XEN MID

Client Sample ID: NSW#6@4
Lab Sample ID: 890-940-42
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5206	07/15/21 12:32	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5186	07/14/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			5221	07/15/21 16:51	CH	XEN MID

Client Sample ID: SSW#5@9
Lab Sample ID: 890-940-43
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5206	07/15/21 12:58	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 15:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5186	07/14/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			5221	07/15/21 16:56	CH	XEN MID

Client Sample ID: FL#21@5
Lab Sample ID: 890-940-44
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5206	07/15/21 13:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 15:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5186	07/14/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			5221	07/15/21 17:25	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL#22@5
Lab Sample ID: 890-940-45
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5206	07/15/21 13:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 15:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5186	07/14/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		5			5221	07/15/21 17:07	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-940-1	WSW#13@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-2	WSW#14@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-3	WSW#15@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-4	WSW#16@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-5	WSW#17@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-6	WSW#18@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-7	WSW#19@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-8	WSW#20@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-9	WSW#21@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-10	WSW#22@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-11	WSW#23@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-12	WSW#24@9	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-13	ESW#9@4	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-14	ESW#10@4	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-15	ESW#11@4	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-16	ESW#12@4	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-17	ESW#13@4	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-18	ESW#14@4	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-19	ESW#15@7	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-20	ESW#16@9	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-21	FL#33@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-22	FL#34@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-23	FL#35@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-24	FL#36@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-25	FL#37@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-26	FL#38@4 FT 6IN	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-27	FL#39@4 FT 6 IN	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-28	FL#40@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-29	FL#41@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-30	FL#42@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-31	FL#43@4	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-32	FL#44@4	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-33	FL#45@4	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-34	FL#46@4	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-35	FL#47@9	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-36	FL#48@9	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-37	FL#49@9	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-38	FL#50@9	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-39	FL#51@9	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-40	FL#52@9	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-41	NSW#5@4	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-42	NSW#6@4	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-43	SSW#5@9	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-44	FL#21@5	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-45	FL#22@5	Solid	07/13/21 13:30	07/13/21 15:39	

Page 381 of 812

Chain of Custody

XENCO LABORATORIES

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: _____

www.xenco.com Page 1 of 5

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris c/o Rob Kirk 469-928-5630
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☑
Sampler's Name:	Aaron Rios	Due Date:	24H
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	4.5/4.3	Thermometer ID	
Received Intact:	Yes No	IR-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Total Containers:	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
~~Zn Acetate+ NaOH: Zn~~

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
WSW#13@4'	Soil	7-13-21	10:00 AM		1	X	X	X		
WSW#14@4'	Soil	7-13-21	10:00 AM		1	X	X	X		
WSW#15@4'	Soil	7-13-21	10:00 AM		1	X	X	X		
WSW#16@4'	Soil	7-13-21	10:00 AM		1	X	X	X		
WSW#17@4'	Soil	7-13-21	10:00 AM		1	X	X	X		
WSW#18@4'	Soil	7-13-21	10:00 AM		1	X	X	X		
WSW#19@4'	Soil	7-13-21	10:00 AM		1	X	X	X		
WSW#20@4'	Soil	7-13-21	10:00 AM		1	X	X	X		
WSW#21@4'	Soil	7-13-21	10:00 AM		1	X	X	X		
WSW#22@4'	Soil	7-13-21	10:00 AM		1	X	X	X		

890-940 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010: 8RCRA~~ Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios	Cire Cut	7-13-21 1537	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM
7/15/2021
Page 73 of 82

Page 382 of 812

Chain of Custody

XENCO LABORATORIES

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/O Rob Kirk 469-928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etecheny.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☑
Sampler's Name:	Aaron Rios	Due Date:	
PO #:		24H	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0	
Sample Custody Seals:	Yes No N/A	Total Containers:		

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
WSW #23 @4'	Soil	7-13-21	10:00 AM		1	X	X	X		
WSW #24 @ 9'	Soil	7-13-21	10:00 AM		1	X	X	X		
ESW #9 @ 4'	Soil	7-13-21	11:00 Am		1	X	X	X		
ESW #10 @ 4'	Soil	7-13-21	11:00 Am		1	X	X	X		
ESW #11 @ 4'	Soil	7-13-21	11:00 Am		1	X	X	X		
ESW #12 @ 4'	Soil	7-13-21	11:00 Am		1	X	X	X		
ESW #13 @ 4'	Soil	7-13-21	11:00 Am		1	X	X	X		
ESW #14 @ 4'	Soil	7-13-21	11:00 Am		1	X	X	X		
ESW #15 @ 7'	Soil	7-13-21	11:00 AM		1	X	X	X		
ESW #16 @ 9'	Soil	7-13-21	11:00 AM		1	X	X	X		

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010: 8RCRA~~ Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios	Cioe Cuts	7.13.21 1537			
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Page 74 of 82
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7/15/2021

Page 383 of 812

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/o Rob Kirk 469-928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☑
Sampler's Name:	Aaron Rios	Due Date:	24H
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
FL#33@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#34@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#35@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#36@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#37@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#38@ 4Ft 6inch	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#39@ 4Ft 6inch	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#40@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#41@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#42@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA ~~Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U~~ 1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7-13-21 1537	4		
3			6		
5					

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Page 384 of 812

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/o Rob Kirk 469-928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☐
Project Location		Rush:	☑
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temperature (°C):		Temp Blank:	Yes No	Wet Ice: Yes No
Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
FL#43@4'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#44@4'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#45@4'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#46@4'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#47@9'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#48@9'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#49@9'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#50@9'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#51@9'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#52@9'	Soil	7-13-21	1:30PM		1	X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7-13-21 1535			
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Page 76 of 82

7/15/2021

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Page 385 of 812

Chain of Custody

XENCO LABORATORIES
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Page 5 of 5

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris c/o Rob Kirk
Address:	3100 Plains Highway	Address:	469-928-5620
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☑
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:		Routine:	☐
Project Location		Rush:	☑
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
~~Cooler Custody Seals:~~	~~Yes No N/A~~	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
NSW #5 @ 4'	Soil	7-13-21	1:30 PM		1	X	X	X	
NSW #6 @ 4'	Soil	7-13-21	1:30 PM		1	X	X	X	
SSW #5 @ 9'	Soil	7-13-21	1:30 PM		1	X	X	X	
FL #21 @ 5'	Soil	7-13-21	1:30 PM		1	X	X	X	
FL #22 @ 5'	Soil	7-13-21	1:30 PM		1	X	X	X	
	Soil	7-13-21			1	X	X	X	
	Soil	7-13-21			1	X	X	X	
	Soil	7-13-21			1	X	X	X	
	Soil	7-13-21			1	X	X	X	
	Soil	7-13-21			1	X	X	X	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
~~Zn Acetate+ NaOH: Zn~~

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010:~~ 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $76.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios	Clint Cody	7-13-21 1537	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Page 77 of 82
7/15/2021
Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 890-301 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 5
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-940-1
Address: 1211 W Florida Ave	Due Date Requested: 7/15/2021			
City: Midland	TAT Requested (days):			
State Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Marathon Kyle to Willow	Project #: 88000073			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B - NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc Mid - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
WSW#13@4 (890-940-1)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#14@4 (890-940-2)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#15@4 (890-940-3)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#16@4 (890-940-4)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#17@4 (890-940-5)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#18@4 (890-940-6)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#19@4 (890-940-7)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#20@4 (890-940-8)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#21@4 (890-940-9)	7/13/21	10 00 Mountain		Solid			X	X	X	1	

Note Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by: Cice Cruz 7.13.21	Date/Time	Company	Received by:	Date/Time: 7.14.21 1130 am	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Page 386 of 812
Received by OCD: 8/21/2021 12:00:14 AM
7/15/2021
Page 78 of 82
Released to Imaging: 12/1/2021 8:29:26 AM

Page 387 of 812

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 890-301 3
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 3 of 5
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-940-1
Address: 1211 W Florida Ave, ,	Due Date Requested: 7/15/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Marathon Kyle to Willow	Project #: 88000073			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc Mid - BTEX	Total Number of containers	Special Instructions/Note.
			Preservation Code:								
ESW#15@7 (890-940-19)	7/13/21	11 00 Mountain		Solid			X	X	X	1	
ESW#16@9 (890-940-20)	7/13/21	11 00 Mountain		Solid			X	X	X	1	
FL#33@4 (890-940-21)	7/13/21	13 00 Mountain		Solid			X	X	X	1	
FL#34@4 (890-940-22)	7/13/21	13 00 Mountain		Solid			X	X	X	1	
FL#35@4 (890-940-23)	7/13/21	13 00 Mountain		Solid			X	X	X	1	
FL#36@4 (890-940-24)	7/13/21	13 00 Mountain		Solid			X	X	X	1	
FL#37@4 (890-940-25)	7/13/21	13 00 Mountain		Solid			X	X	X	1	
FL#38@4 FT 6IN (890-940-26)	7/13/21	13 00 Mountain		Solid			X	X	X	1	
FL#39@4 FT 6 IN (890-940-27)	7/13/21	13 00 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Cloe Cuff 7-13-21				7-14-21 11:30 am	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer, Jessica	Carrier Tracking No(s)	COC No: 890-301 5
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 5 of 5
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-940-1
Address: 1211 W Florida Ave	Due Date Requested: 7/15/2021			
City: Midland	TAT Requested (days):			
State Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Marathon Kyle to Willow	Project #: 88000073			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc Mid - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
FL#49@9 (890-940-37)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
FL#50@9 (890-940-38)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
FL#51@9 (890-940-39)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
FL#52@9 (890-940-40)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
NSW#5@4 (890-940-41)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
NSW#6@4 (890-940-42)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
SSW#5@9 (890-940-43)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
FL#21@5 (890-940-44)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
FL#22@5 (890-940-45)	7/13/21	13 30 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Chelsea 7137				7-14-21 1:30 PM	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM
7/15/2021
Page 80 of 82

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-940-1
SDG Number: 13714

Login Number: 940
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-940-1
SDG Number: 13714

Login Number: 940
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 07/14/21 11:17 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-953-1
Laboratory Sample Delivery Group: 13714
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

JKramer

Authorized for release by:
7/21/2021 1:34:09 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Laboratory Job ID: 890-953-1
SDG: 13714

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
QC Sample Results 6
QC Association Summary 7
Lab Chronicle 8
Certification Summary 9
Method Summary 10
Sample Summary 11
Chain of Custody 12
Receipt Checklists 14

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-953-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-953-1
SDG: 13714

Job ID: 890-953-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-953-1

Receipt

The sample was received on 7/16/2021 10:36 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-953-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #51 @ 9 FT 6 IN
Lab Sample ID: 890-953-1

Date Collected: 07/16/21 08:04
Matrix: Solid
Date Received: 07/16/21 10:36

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.4		5.01		mg/Kg			07/20/21 20:41	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-953-1
SDG: 13714

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5370/1-A
Matrix: Solid
Analysis Batch: 5418

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/20/21 11:16	1

Lab Sample ID: LCS 880-5370/2-A
Matrix: Solid
Analysis Batch: 5418

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	247.2		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-5370/3-A
Matrix: Solid
Analysis Batch: 5418

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	247.2		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-953-1
SDG: 13714

HPLC/IC

Leach Batch: 5370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-953-1	FL #51 @ 9 FT 6 IN	Soluble	Solid	DI Leach	
MB 880-5370/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5370/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5370/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 5418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-953-1	FL #51 @ 9 FT 6 IN	Soluble	Solid	300.0	5370
MB 880-5370/1-A	Method Blank	Soluble	Solid	300.0	5370
LCS 880-5370/2-A	Lab Control Sample	Soluble	Solid	300.0	5370
LCSD 880-5370/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5370

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-953-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #51 @ 9 FT 6 IN
Lab Sample ID: 890-953-1

Date Collected: 07/16/21 08:04
Matrix: Solid
Date Received: 07/16/21 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	5370	07/19/21 11:49	SC	XEN MID
Soluble	Analysis	300.0		1			5418	07/20/21 20:41	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-953-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Laboratory: Eurofins Xenco, Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-953-1
SDG: 13714

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-953-1
SDG: 13714

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-953-1	FL #51 @ 9 FT 6 IN	Solid	07/16/21 08:04	07/16/21 10:36	

Page 402 of 812

Chain of Custody

XENCO LABORATORIES

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/o Rob Kirk #469-928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☐
Project Location		Rush:	☑
Sampler's Name:	Aaron Rios	Due Date:	3D
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	5.2/5.0	Thermometer ID		
Received Intact:	(Yes) No		2TVM-007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:		
Sample Custody Seals:	Yes (No) N/A	Total Containers:		

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

890-953 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
FL#5 @ 9Ft 6inches	Soil	7/16/21	8:04 AM		1	✓				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U~~ 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios	Clue Cruz	7.16.21 1054	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 890-305 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica kramer@eurofinset com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-953-1
Address: 1211 W Florida Ave	Due Date Requested: 7/21/2021			
City: Midland	TAT Requested (days):			
State Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Marathon Kyle to Willow	Project #: 88000073			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FL #51 @ 9 FT 6 IN (890-953-1)	7/16/21	08 04 Mountain		Solid			X	1	

Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by: Clue Carp 7.16.21	Date/Time:	Company	Received by:	Date/Time: 7/19/21	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Page 403 of 812
Received by OCD: 8/21/2021 12:00:14 AM
7/21/2021
Page 13 of 15
Released to Imaging: 12/1/2021 8:29:26 AM

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-953-1
SDG Number: 13714

Login Number: 953
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-953-1
SDG Number: 13714

Login Number: 953
List Number: 2
Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland
List Creation: 07/19/21 10:21 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

State of New Mexico
Oil Conservation Division

Incident ID	nRM2014255492
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☑ Description of remediation activities

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

Printed Name: Rob Kirk Title: General Manager, HSE & Compliance

Signature: RP Kirk Date: 08/20/21

email: rob.kirk@solarismidstream.com Telephone: (432)203-9020

OCD Only

Received by: Robert Hamlet Date: 11/30/2021

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

Closure Approved by: Robert Hamlet Date: 11/30/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

State of New Mexico
Oil Conservation Division

Incident ID	nRM2014255492
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	39 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☑ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☑ Yes ☐ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nRM2014255492
District RP	
Facility ID	
Application ID	

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

Printed Name: Rob Kirk Title: General Manager, HSE & Compliance

Signature: Date: 08/20/21

email: rob.kirk@solarismidstream.com Telephone: (432)203-9020

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	nRM2014255492
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☑ Description of remediation activities

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

Printed Name: Rob Kirk Title: General Manager, HSE & Compliance

Signature: RP Kirk Date: 08/20/21

email: rob.kirk@solarismidstream.com Telephone: (432)203-9020

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Remediation Summary & Soil Closure Request

Solaris Water Midstream, LLC
Marathon Kyle to Willow State Line
Eddy County, New Mexico
Unit Letter L2, Section 3, Township 25 South, Range 28 East
Latitude 32.1646 North, Longitude 104.0743 West
NMOCD Reference No. nRM2014255492

Prepared By:

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

Ben J. Arguijo

Joel W. Lowry

ETECH Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Hobbs • Lafayette

TABLE OF CONTENTS

Section

PROJECT INFORMATION…. **1.0**
SITE CHARACTERIZATION…. **2.0**
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE…. **3.0**
INITIAL SITE ASSESSMENT…. **4.0**
REMEDIATION ACTIVITIES SUMMARY…. **5.0**
RESTORATION, RECLAMATION & RE-VEGETATION PLAN…. **6.0**
SOIL CLOSURE REQUEST…. **7.0**
LIMITATIONS…. **8.0**
DISTRIBUTION…. **9.0**

FIGURES

Figure 1 - Topographic Map
Figure 2 - Aerial Proximity Map
Figure 3A - Site & Sample Location Map (Delineation)
Figure 3B - Site & Sample Location Map (Excavation)

TABLES

Table 1 - Concentrations of BTEX, TPH & Chloride in Soil

APPENDICES

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

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Solaris Water Midstream, LLC, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Marathon Kyle to Willow State Line (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.1646 Longitude: -104.0743

Provided GPS are in WGS84 format.

Site Name: Marathon Kyle to Willow State Line	Site Type: Pipeline
Date Release Discovered: 5/18/2020	API # (if applicable): N/A

Unit Letter	Section	Township	Range	County
L2	3	25S	28E	Eddy

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

Nature and Volume of Release

[ ] Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
[X] Produced Water	Volume Released (bbls) 45	Volume Recovered (bbls) 40
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	[X] Yes [ ] No [ ] N/A
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[ ] Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:
A 4-inch polyethylene produced water line ruptured. The line was quickly turned off, as Solaris personnel were in the vicinity. The line was isolated, and the affected section was replaced. Released water flowed onto the adjacent oil field road. A Hydro-Vac truck nearby responded and captured most of the released water. The remainder absorbed into the soil. The impacted area is approximately 50 feet long by 10 feet wide, covering approximately 500 square feet. Release volume was determined by the size of the line, the response time to turn off the flow, and the impacted area.

Initial Response

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

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

2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	39'
Did the release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production or storage site?	☒ Yes ☐ No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

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

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 INITIAL SITE ASSESSMENT

On January 29, 2021, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores (SP1 through SP5) were advanced within the inferred margins of the affected area in an effort to determine the vertical extent of impacted soil. In addition, hand-augered soil bores (NH1, EH1, EH2, SH1, WH1, and WH2) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit (henceforth, "chloride test kit").

Based on field observations and field test data, a total of 23 delineation soil samples (NH 1 @ Surface, NH 1 @ 1', EH 1 @ Surface, EH 1 @ 1', EH 2 @ Surface, EH 2 @ 1', SH 1 @ Surface, SH 1 @ 1', WH 1 @ Surface, WH 1 @ 1', WH 2 @ Surface, WH 2 @ 1', SP 1 @ Surface, SP 1 @ 3', SP 2 @ Surface, SP 2 @ 5', SP 3 @ Surface, SP 3 @ 4', SP 3 @ 8', SP 4 @ Surface, SP 4 @ 4', SP 5 @ Surface, and SP 5 @ 5') were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal extent of impacted soil was adequately defined. Soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards beyond five (5) feet below ground surface (bgs) in the areas characterized by sample points SP1, SP2, and SP4. However, additional vertical delieation was required in the areas characterized by sample points SP3 and SP5.

On March 1, 2021, Etech revisited the Site. A backhoe was utilized to advance test trenches in the areas characterized by sample points SP3 and SP5 in an effort to further investigate the vertical extent of impacted soil. During the advancement of the test trenches, field soil samples were collected and field-screened for the presence of VOCs utilizing olfactory/visual senses and/or concentrations of chloride utilizing a chloride test kit.

Based on field observations and field test data, Etech submitted two (2) delineation soil samples (SP 3 @ 13' and SP 5 @ 6') to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples, and the vertical extent of impacted soil was adequately defined.

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

5.0 REMEDIATION ACTIVITIES SUMMARY

On May 5, 2021, remediation activities commenced at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The floor and sidewalls of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

On June 22, 2021, Etech collected nine (9) confirmation soil samples (NSW #1, ESW #1, SSW #1, and FL #1 through FL #6) from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On June 23, 2021, Etech collected two (2) confirmation soil samples (NSW #2C and SSW #2) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On June 24, 2021, Etech collected three (3) confirmation soil samples (FL #7 @ 20', FL #8 @ 20', and FL #9 @ 18') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 7, 2021, Etech collected 22 confirmation soil samples (NSW #3 @ 4', NSW #4 @ 4', ESW #2 @ 3', ESW #3 @ 4', ESW 4b @ 4', SSW #3 @ 10', WSW #1 @ 4', WSW #2 @ 4', WSW #3 @ 4', and FL #10 @ 18' through FL #22 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exceptions of soil samples FL #21 @ 4' and FL #22 @ 4', which exhibited chloride concentrations of 797 mg/kg and 1,000 mg/kg, respectively.

On July 8, 2021, Etech collected five (5) confirmation soil samples (ESW #5 @ 5', WSW #6 @ 4', FL #23 @ 4, FL #24 @ 5', and FL #26 @ 4) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 9, 2021, Etech collected 16 confirmation soil samples (ESW #6 @ 4' through ESW #8 @ 4', WSW #7 @ 4' through WSW #12 @ 4', FL #25 @ 4', and FL #27 @ 4' through FL #32 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 13, 2021, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FL #21 @ 4' and FL #22 @ 4'. Etech collected 45 confirmation soil samples (NSW #5 @ 4', NSW #6 @ 4', ESW #9 @ 4' through ESW #16 @ 9', SSW #5 @ 9', WSW #13 @ 4' through WSW #24 @ 9', FL #21 @ 5', FL #22 @ 5', FL #33 @ 4' through FL #37 @ 4', FL #38 @ 4 FT 6 IN, FL #39 @ 4 FT 6 IN, and FL #40 @ 4' through FL #52 @ 9') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil sample FL #51 @ 9', which exhibited a chloride concentration of 639 mg/kg.

On July 16, 2021, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FL #51 @ 9'. Etech collected one (1) confirmation soil sample (FL #51 @ 9 FT 6 IN) from the floor of the excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration in the soil sample was below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

The final dimensions of the excavated area were approximately 490 feet in length, 10 to 142 feet in width, and three (3) to 20 feet in depth. During the course of remediation activities, approximately 5,160 cubic yards of impacted soil was transported to an NMOCD-permitted surface waste facility for disposal.

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

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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

7.0 SOIL CLOSURE REQUEST

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

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

8.0 LIMITATIONS

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

This report has been prepared for the benefit of Solaris Water Midstream, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Solaris Water Midstream, LLC.

9.0 DISTRIBUTION

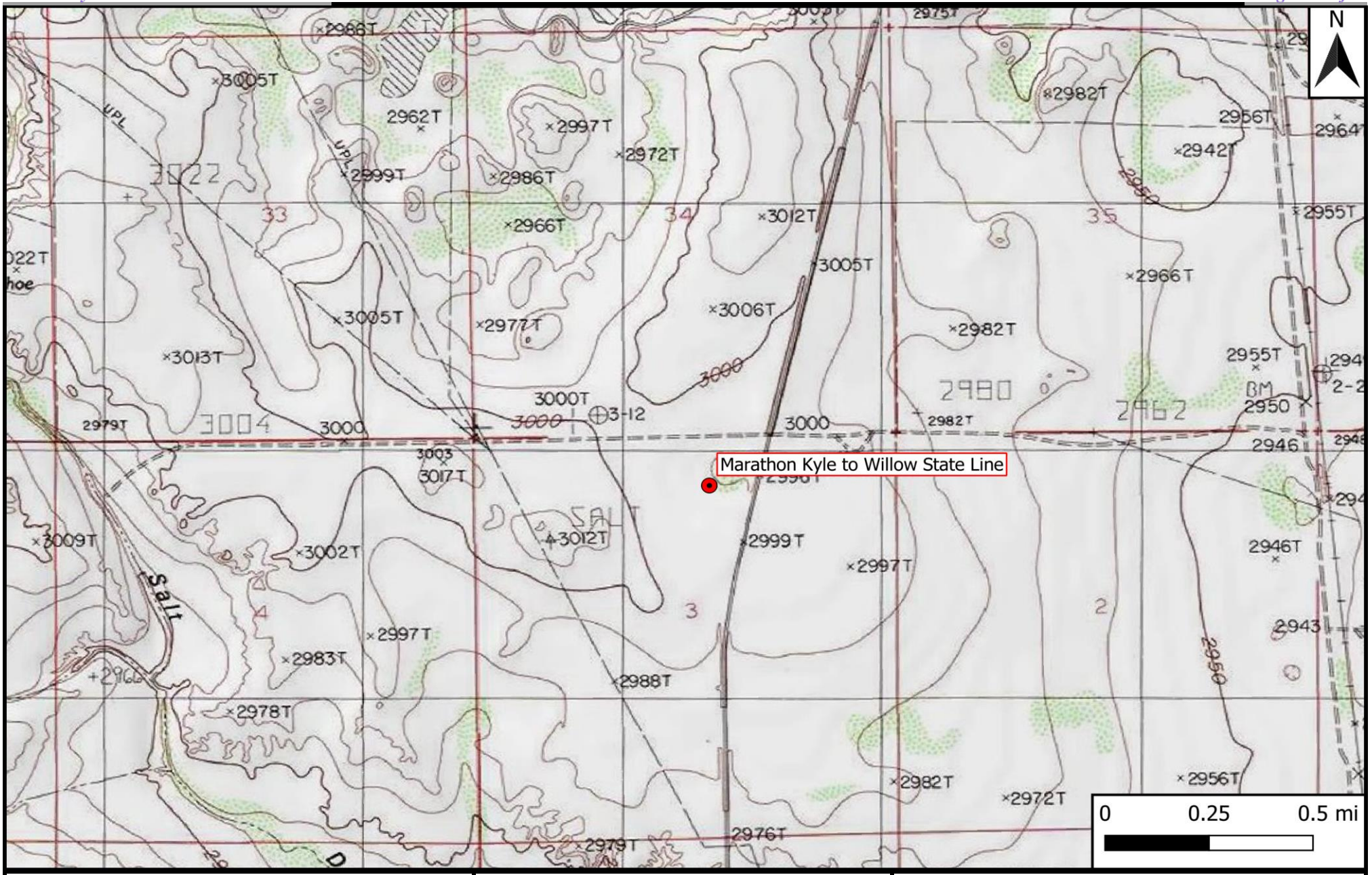
Solaris Water Midstream, LLC
907 Tradewinds Blvd, Suite B
Midland, TX 79706

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210

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

(Electronic Submission)

Figure 1
Topographic Map



Legend

- Site Location

Figure 1

Topographic Map

Solaris Water Midstream, LLC

Marathon Kyle to Willow State Line

GPS: 32.1646, -104.0743

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 7/22/21

Figure 2
Aerial Proximity Map

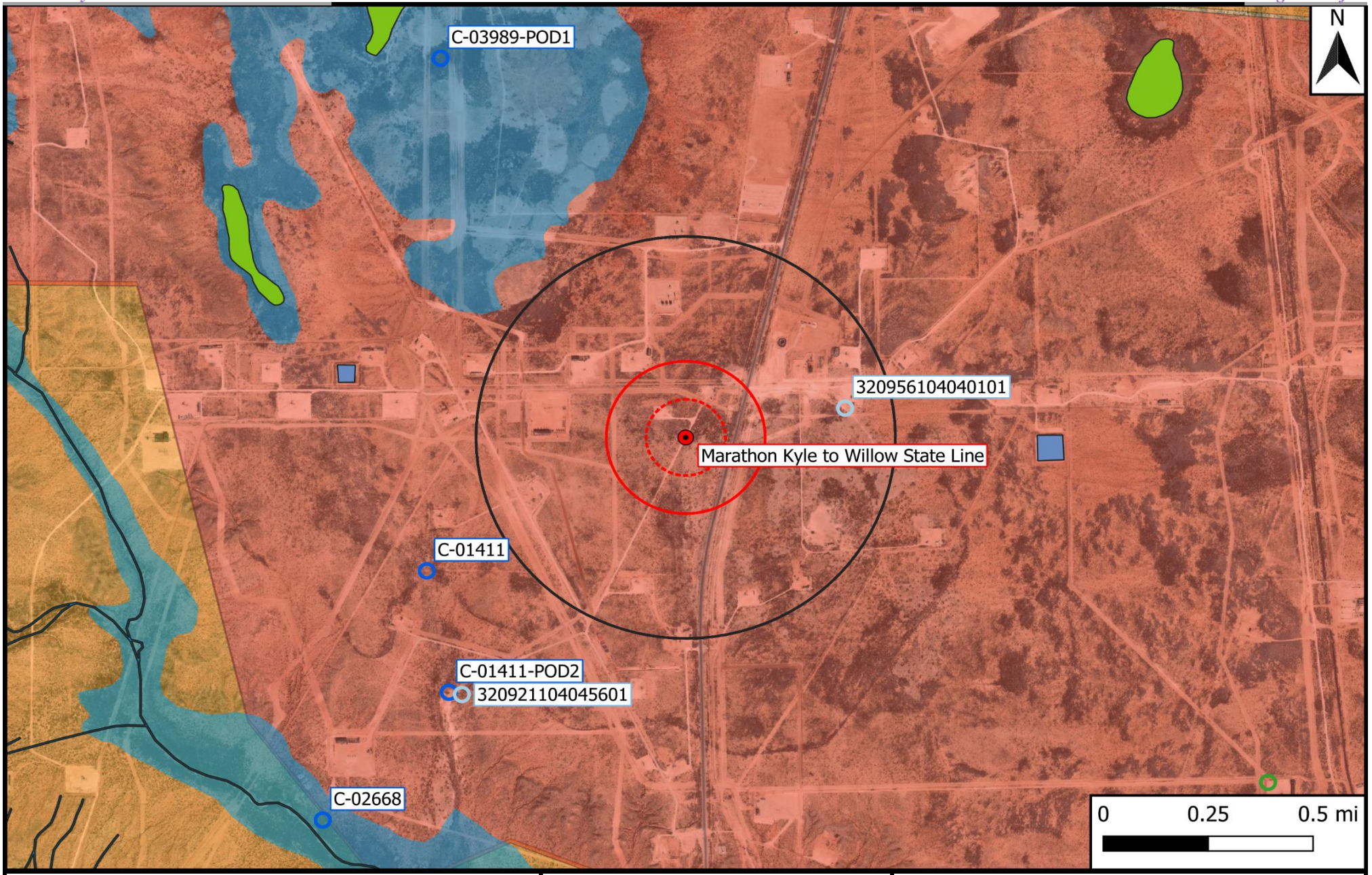
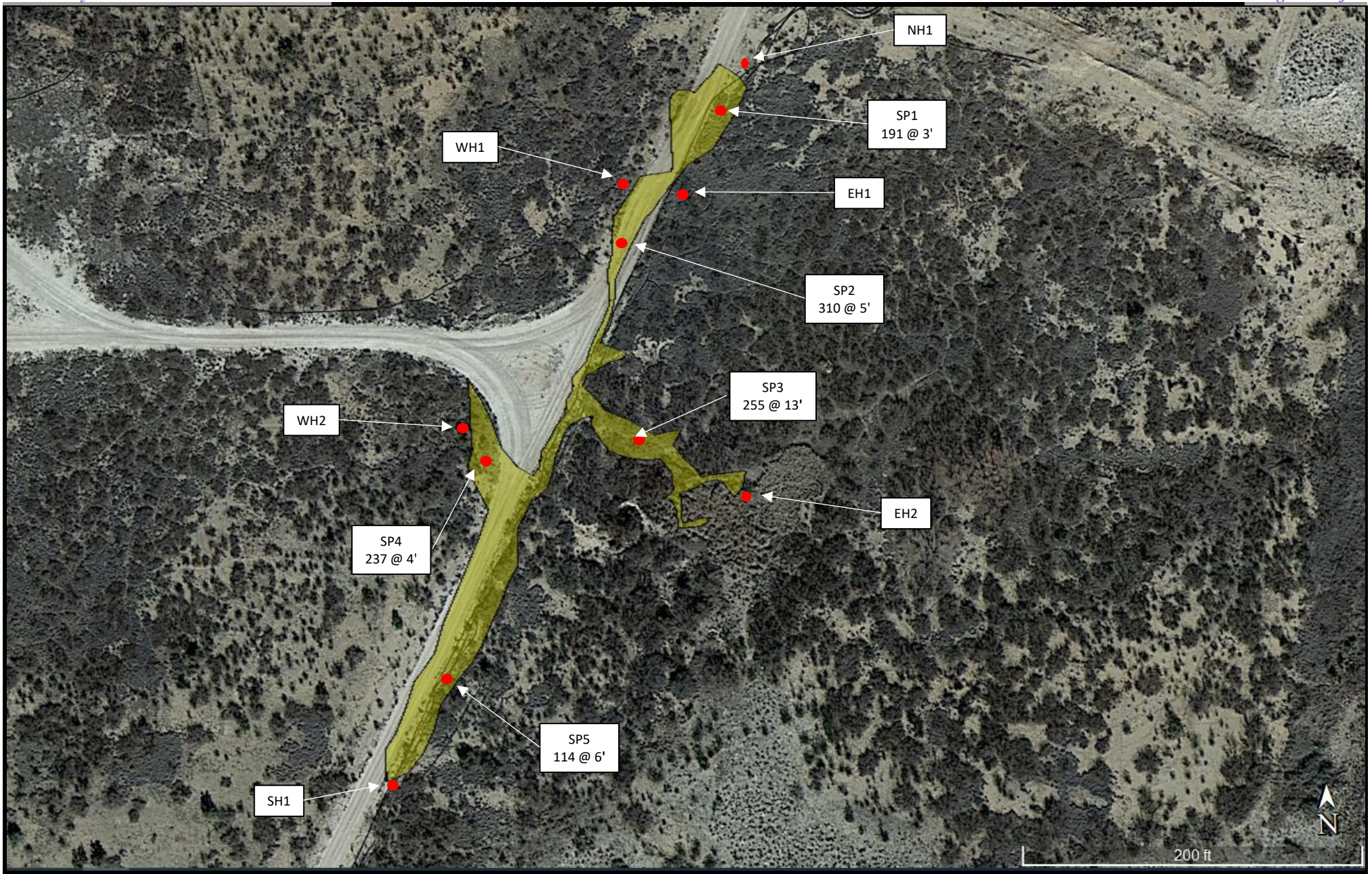


Figure 2
Aerial Proximity Map
Solaris Water Midstream, LLC
Marathon Kyle to Willow State Line
GPS: 32.1646, -104.0743
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 7/22/21

Figures 3A & 3B
Site & Sample Location Maps



Legend:

Affected Area

Sample Point

Figure 3A

Site & Sample Location Map (Delineation)

Marathon Kyle to Willow State Line

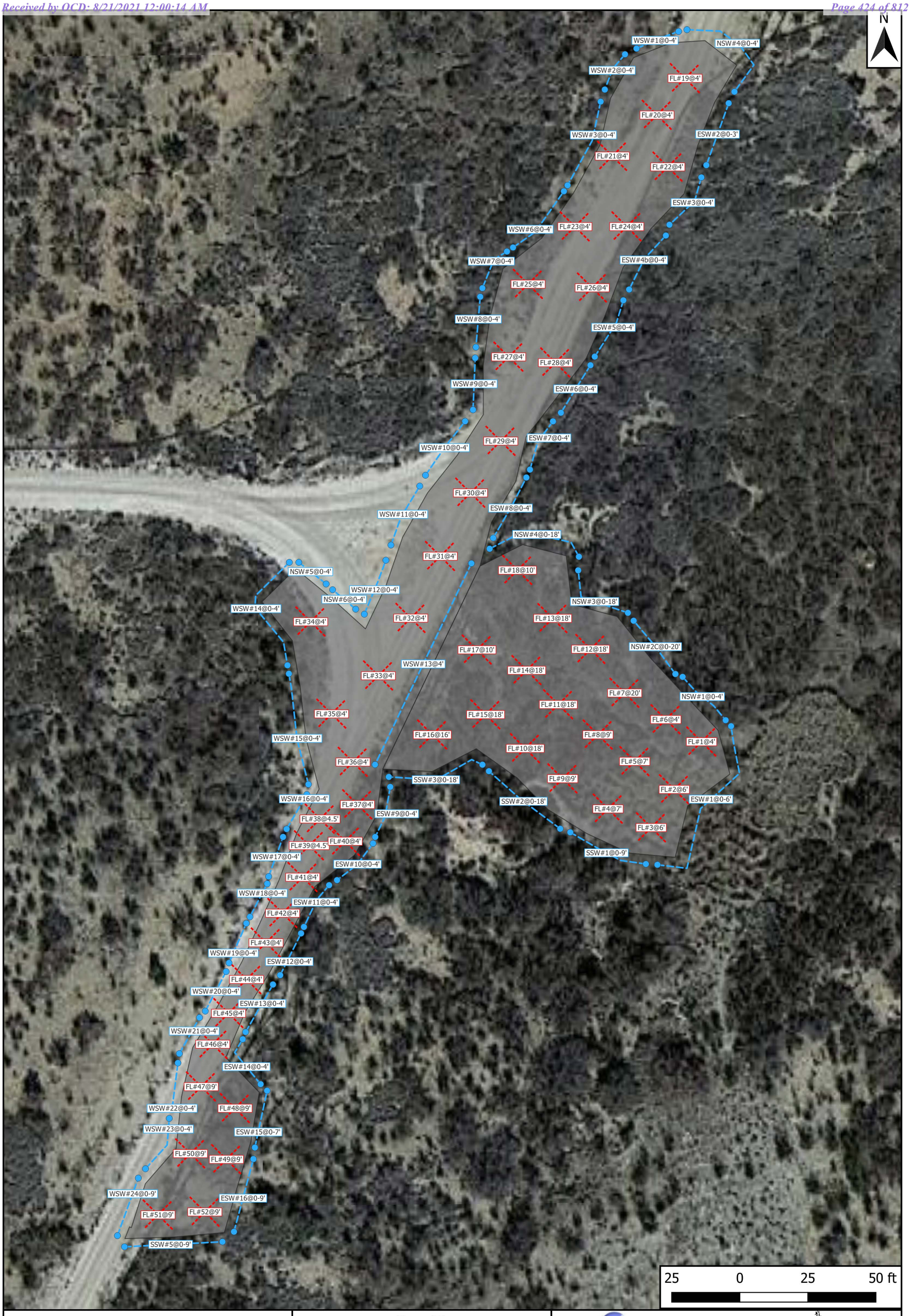
Solaris Water Midstream, LLC

GPS: 32.1646, -104.0743

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Revised: bja Checked: jwl Date: 8/13/21



Legend

- Excavated Area - 21,453 Ft²
- Composite Floor Sample
- Composite Wall Sample

Figure 3B
Site & Sample Location Map (Excavation)
Solaris Water Midstream
Marathon Kyle to Willow State Line
GPS: 32.1646, -104.0743
Eddy County, NM

eTECH Environmental & Safety Solutions, Inc.

Revised: BJA | Checked: JWL | Date: 8/17/2021

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Solaris Water Midstream, LLC
Marathon Kyle to Willow State Line
NMOCD Ref. #: nRM2014255492

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Sample ID	**Date**	**Depth (Feet)**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
Delineation Samples											
NH 1 @ Surface	1/29/2021	0	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	10.3
NH 1 @ 1'	1/29/2021	1	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	80.2
EH 1 @ Surface	1/29/2021	0	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	29.9
EH 1 @ 1'	1/29/2021	1	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	29.6
EH 2 @ Surface	1/29/2021	0	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	42.1
EH 2 @ 1'	1/29/2021	1	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	44.6
SH 1 @ Surface	1/29/2021	0	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	62.2
SH 1 @ 1'	1/29/2021	1	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	50.5
WH 1 @ Surface	1/29/2021	0	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	15.1
WH 1 @ 1'	1/29/2021	1	In-Situ	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	32.9
WH 2 @ Surface	1/29/2021	0	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	91.9
WH 2 @ 1'	1/29/2021	1	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	68.1
SP 1 @ Surface	1/29/2021	0	Excavated	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	**54,600**
SP 1 @ 3'	1/29/2021	3	Excavated	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	191
SP 2 @ Surface	1/29/2021	0	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	**39,200**
SP 2 @ 5'	1/29/2021	5	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	310
SP 3 @ Surface	1/29/2021	0	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.	**105,000**
SP 3 @ 4'	1/29/2021	4	Excavated	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	**11,200**
SP 3 @ 8'	1/29/2021	8	Excavated	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	**7,070**
SP 3 @ 13'	3/1/2021	13	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	255
SP 4 @ Surface	1/29/2021	0	Excavated	<0.00200	<0.00200	<49.9	226	226	<49.9	**226**	**26,900**
SP 4 @ 4'	1/29/2021	4	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	237
SP 5 @ Surface	1/29/2021	0	Excavated	<0.00199	<0.00199	<50.0	1,600	1,600	387	**1,990**	**48,200**
SP 5 @ 5'	1/29/2021	5	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	**762**
SP 5 @ 6'	3/1/2021	6	Excavated	<0.00198	<0.00198	<49.9	<49.9	<59.9	<49.9	<49.9	114
Excavation Samples											
NSW #1	6/22/2021	0-4	In-Situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	133
NSW #2C	6/23/2021	0-20	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	82.9
NSW #3 @ 4'	7/7/2021	0-4	In-Situ	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	37.5
NSW #4 @ 4'	7/7/2021	0-4	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	254
NSW #5 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	450
NSW #6 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	566
ESW #1	6/22/2021	0-6	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	27.8
ESW #2 @ 3'	7/7/2021	0-3	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	351
ESW #3 @ 4'	7/7/2021	0-4	In-Situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	127
ESW 4b @ 4'	7/7/2021	0-4	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	216
ESW #5 @ 5'	7/8/2021	0-5	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	26.3
ESW #6 @ 4'	7/9/2021	0-4	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	305
ESW #7 @ 4'	7/9/2021	0-4	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	122
ESW #8 @ 4'	7/9/2021	0-4	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	102

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

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Solaris Water Midstream, LLC
Marathon Kyle to Willow State Line
NMOCD Ref. #: nRM2014255492

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Sample ID	**Date**	**Depth (Feet)**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
ESW #9 @ 4'	7/13/2021	0-4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	73.6
ESW #10 @ 4'	7/13/2021	0-4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	70.4
ESW #11 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	284
ESW #12 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	187
ESW #13 @ 4'	7/13/2021	0-4	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	179
ESW #14 @ 4'	7/13/2021	0-4	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	80.3
ESW #15 @ 7'	7/13/2021	0-7	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	8.81
ESW #16 @ 9'	7/13/2021	0-9	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	16.2
SSW #1	6/22/2021	0-9	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	24.2
SSW #2	6/23/2021	0-18	In-Situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	592
SSW #3 @ 10'	7/7/2021	0-10	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	108
SSW #5 @ 9'	7/13/2021	0-9	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	30.6
WSW #1 @ 4'	7/7/2021	0-4	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	104
WSW #2 @ 4'	7/7/2021	0-4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	151
WSW #3 @ 4'	7/7/2021	0-4	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	59.5
WSW #6 @ 4'	7/8/2021	0-4	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	282
WSW #7 @ 4'	7/9/2021	0-4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	5.53
WSW #8 @ 4'	7/9/2021	0-4	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	68.4
WSW #9 @ 4'	7/9/2021	0-4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	262
WSW #10 @ 4	7/9/2021	0-4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	451
WSW #11 @ 4'	7/9/2021	0-4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	20.7
WSW #12 @ 4'	7/9/2021	0-4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	358
WSW #13 @ 4'	7/13/2021	0-4	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	459
WSW #14 @ 4'	7/13/2021	0-4	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	495
WSW #15 @ 4'	7/13/2021	0-4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	368
WSW #16 @ 4'	7/13/2021	0-4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	121
WSW #17 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	398
WSW #18 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	409
WSW #19 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	173
WSW #20 @ 4'	7/13/2021	0-4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	215
WSW #21 @ 4'	7/13/2021	0-4	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	110
WSW #22 @ 4'	7/13/2021	0-4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	107
WSW #23 @ 4'	7/13/2021	0-4	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	98.0
WSW #24 @ 9'	7/13/2021	9	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	142
FL #1	6/22/2021	4	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	27.4
FL #2	6/22/2021	6	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	23.3
FL #3	6/22/2021	6	In-Situ	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	27.4
FL #4	6/22/2021	7	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	205
FL #5	6/22/2021	7	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	53.5
FL #6	6/22/2021	4	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	169
FL #7 @ 20'	6/24/2021	20	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	45.0

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

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Solaris Water Midstream, LLC
Marathon Kyle to Willow State Line
NMOCD Ref. #: nRM2014255492

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
				SW 846 8021B		**SW 846 8015M Ext.**					**4500 Cl**
Sample ID	**Date**	**Depth (Feet)**	**Soil Status**	**Benzene (mg/kg)**	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
FL #8 @ 20'	6/24/2021	20	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	179
FL #9 @ 18'	6/24/2021	18	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	242
FL #10 @ 18'	7/7/2021	18	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	52.3
FL #11 @ 18'	7/7/2021	18	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	126
FL #12 @ 19'	7/7/2021	19	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	74.9
FL #13 @ 10'	7/7/2021	10	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	11.0
FL #14 @ 10'	7/7/2021	10	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	8.60
FL #15 @ 18'	7/7/2021	18	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	15.1
FL #16 @ 10'	7/7/2021	10	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	51.2
FL #17 @ 18'	7/7/2021	18	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	112
FL #18 @16'	7/7/2021	16	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	31.4
FL #19 @ 4'	7/7/2021	4	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	308
FL #20 @ 4'	7/7/2021	4	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	249
FL #21 @ 4'	7/7/2021	4	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**797**
FL #21 @ 5'	7/13/2021	5	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	74.8
FL #22 @ 4'	7/7/2021	4	Excavated	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	**1,000**
FL #22 @ 5'	7/13/2021	5	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	367
FL #23 @ 4'	7/8/2021	4	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	84.9
FL #24 @ 5'	7/8/2021	5	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	153
FL #25 @ 4'	7/9/2021	4	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	375
FL #26 @ 4'	7/8/2021	4	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	371
FL #27 @ 4'	7/9/2021	4	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	368
FL #28 @ 4'	7/9/2021	4	In-Situ	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	86.1
FL #29 @ 4'	7/9/2021	4	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	311
FL #30 @ 4'	7/9/2021	4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	47.3
FL #31 @ 4'	7/9/2021	4	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	19.5
FL #32 @ 4'	7/9/2021	4	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	<4.99
FL #33 @ 4'	7/13/2021	4	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	133
FL #34 @ 4'	7/13/2021	4	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	225
FL #35 @ 4'	7/13/2021	4	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	125
FL #36 @ 4'	7/13/2021	4	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	126
FL #37 @ 4'	7/13/2021	4	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	168
FL #38 @ 4 FT 6 IN	7/13/2021	4.5	In-Situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	242
FL #39 @ 4 FT 6 IN	7/13/2021	4.5	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	101
FL #40 @ 4'	7/13/2021	4	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	134
FL #41 @ 4'	7/13/2021	4	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	64.8
FL #42 @ 4'	7/13/2021	4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	39.5
FL #43 @ 4'	7/13/2021	4	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	68.6
FL #44 @ 4'	7/13/2021	4	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	49.9
FL #45 @ 4'	7/13/2021	4	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	19.6
FL #46 @ 4'	7/13/2021	4	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	406

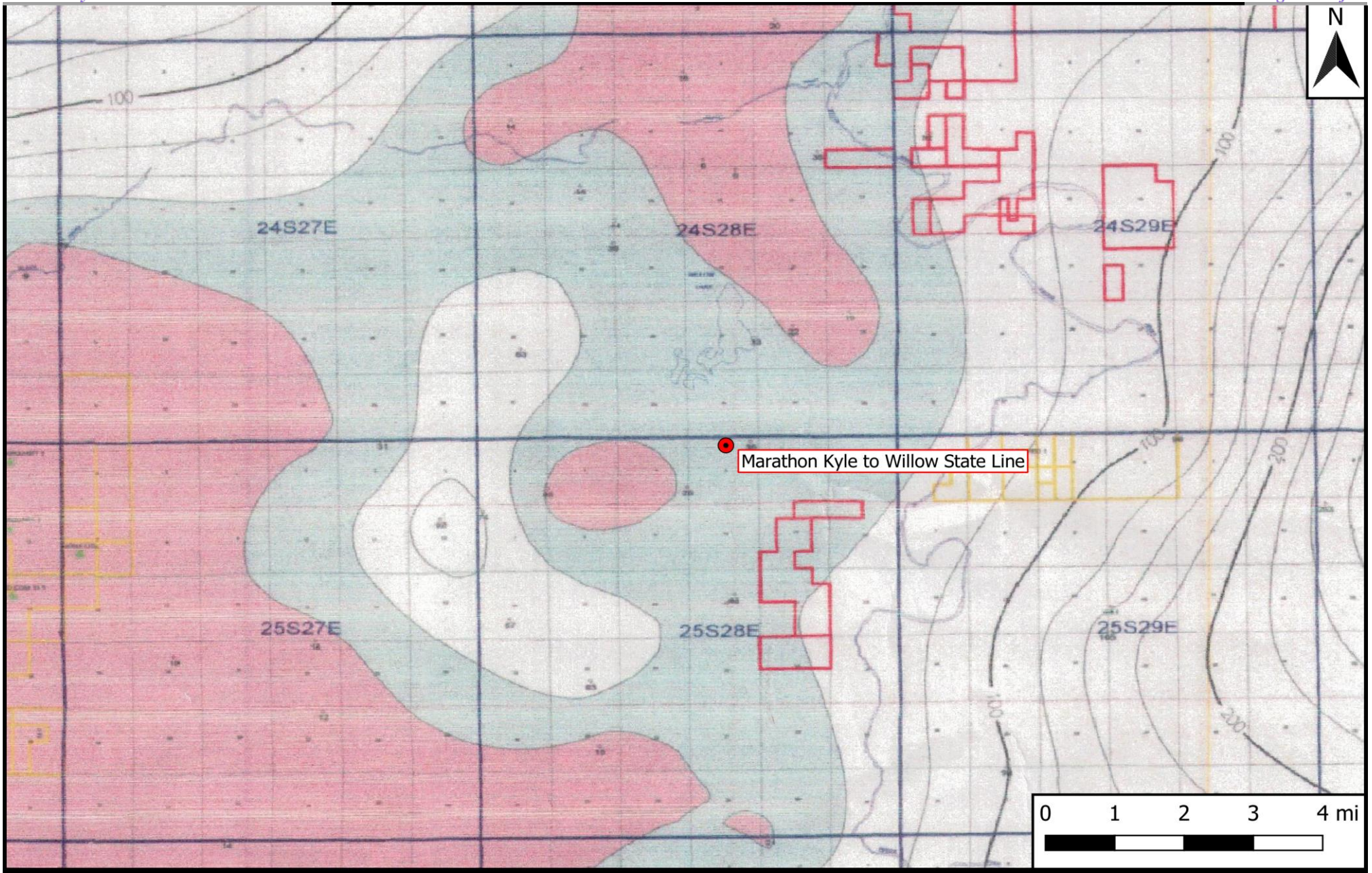
Dash (-): Sample not analyzed for that constituent.
Bold: NMOCD Closure Criteria exceedance.
Red: NMOCD Reclamation Standard exceedance.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Solaris Water Midstream, LLC
Marathon Kyle to Willow State Line
NMOCD Ref. #: nRM2014255492

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Sample ID	**Date**	**Depth (Feet)**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
FL #47 @ 9'	7/13/2021	9	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	20.7
FL #48 @ 9'	7/13/2021	9	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	17.3
FL #49 @ 9'	7/13/2021	9	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	14.7
FL #50 @ 9'	7/13/2021	9	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	15.5
FL #51 @ 9'	7/13/2021	9	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**639**
FL #51 @ 9 FT 6 IN	7/16/2021	9.5	In-Situ	-	-	-	-	-	-	-	16.4
FL #52 @ 9'	7/13/2021	9	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	528

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

Appendix A
Depth to Groundwater Information



Legend

Site Location

Figure 4

Inferred Depth to Groundwater Trend Map

Solaris Water Midstream, LLC

Marathon Kyle to Willow State Line

GPS: 32.1646, -104.0743

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 7/22/21

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

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

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 01411	R	C	ED	4	4	2	04	25S	28E	586289	3558522*	1127	69	35	34
C 01411 POD2		C	ED	4	2	4	04	25S	28E	586374	3558036	1365	90	50	40

Average Depth to Water: **42 feet**

Minimum Depth: **35 feet**

Maximum Depth: **50 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 587282.4 **Northing (Y):** 3559055.97 **Radius:** 1610 (1 mile)

***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.

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 01411	4	4	2	04	25S	28E	586289	3558522*

Driller License: 439 **Driller Company:** WHITE, QUINCE L.

Driller Name: WHITE, QUINCE L.

Drill Start Date: 10/07/1969 **Drill Finish Date:** 10/15/1969 **Plug Date:**

Log File Date: 10/20/1969 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 20 GPM

Casing Size: 5.00 **Depth Well:** 69 feet **Depth Water:** 35 feet

Water Bearing Stratifications:	Top	Bottom	Description
	52	68	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	40	69

***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.

POINT OF DIVERSION SUMMARY

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
2237E	C 01411 POD2	4	2	4	04	25S	28E	586374	3558036

Driller License: 1348 **Driller Company:** TAYLOR WATER WELL SERVICE

Driller Name: TAYLOR, CLINTON E.E.ENER

Drill Start Date: 02/09/2020 **Drill Finish Date:** 02/20/2020 **Plug Date:**

Log File Date: 02/21/2020 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 4 GPM

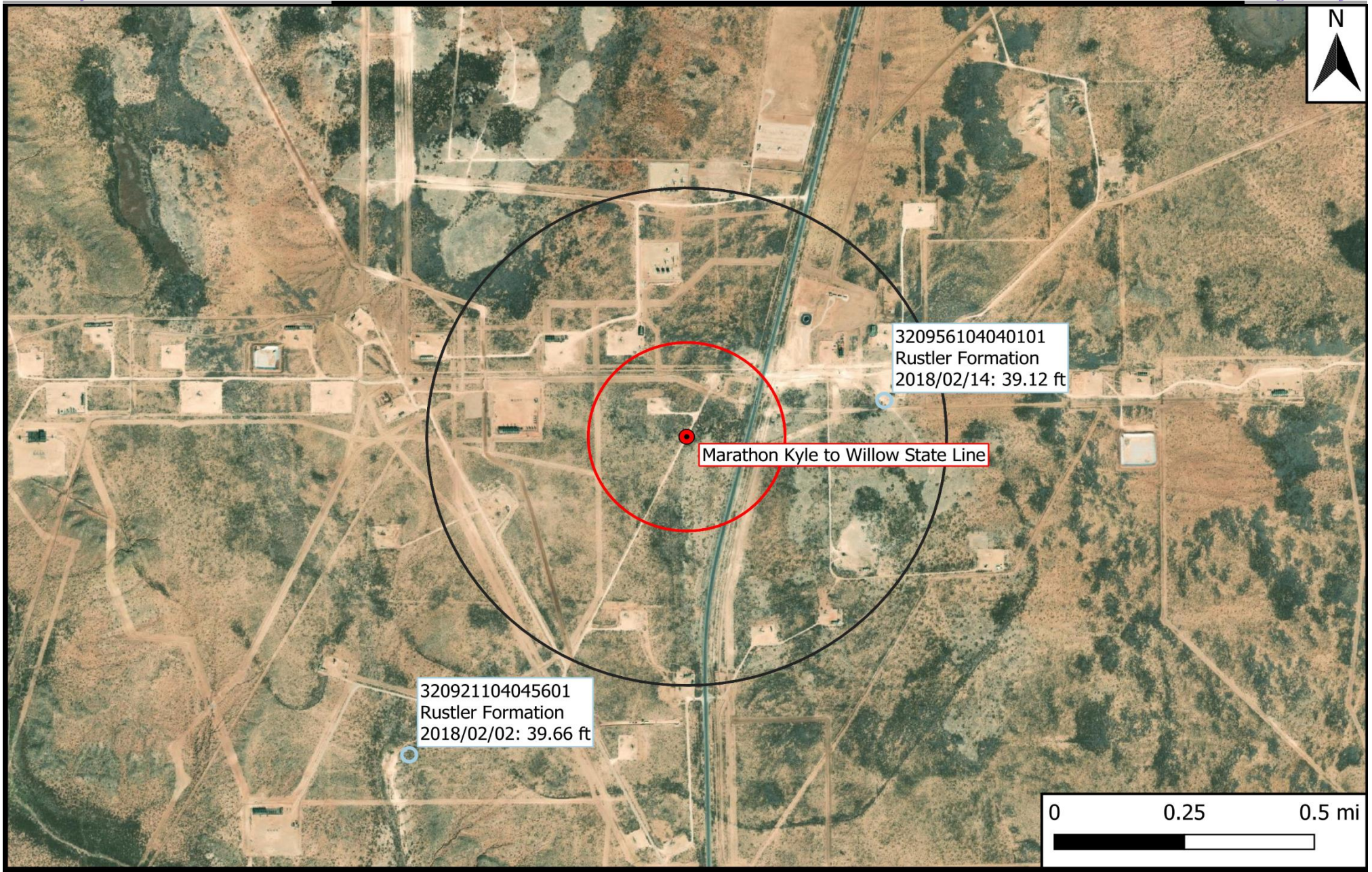
Casing Size: 5.00 **Depth Well:** 90 feet **Depth Water:** 50 feet

Water Bearing Stratifications:	Top	Bottom	Description
	40	60	Other/Unknown
	60	90	Other/Unknown

Casing Perforations:	Top	Bottom
	52	90

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.

POINT OF DIVERSION SUMMARY



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

Figure 5
USGS Well Proximity Map
Solaris Water Midstream, LLC
Marathon Kyle to Willow State Line
GPS: 32.1646, -104.0743
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 7/22/21

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Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320956104040101

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

USGS 320956104040101 25S.28E.03.22231

Eddy County, New Mexico
Latitude 32°09'56.2", Longitude 104°04'04.1" NAD83
Land-surface elevation 2,990.20 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1948-12-06		D	72019	32.27			1	Z			A
1978-01-03		D	72019	32.97			1	Z			A
1983-02-01		D	72019	25.87			1	Z			A
1987-10-14		D	72019	29.27			1	Z			A
1988-03-22		D	72019	29.93			1	Z			A
1992-11-04		D	72019	35.03			1	S			A
1998-01-23		D	72019	33.84			1	S			A
2003-01-27		D	72019	32.08			1	S	USGS	S	A
2013-01-10	21:20 UTC	m	72019	33.56			1	S	USGS	S	A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
2018-02-14	16:56 UTC	m	72019	39.12			1	V	USGS	S	A
2021-02-24	19:00 UTC	m	72019	42.79			1	S	USGS	S	A

Explanation

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

Questions about sites/data?
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Accessibility FOIA Privacy Policies and Notices
U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-08-13 17:05:11 EDT
0.38 0.24 nadww01

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Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320921104045601

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

USGS 320921104045601 25S.28E.04.42444

Eddy County, New Mexico
Latitude 32°09'19.4", Longitude 104°05'00.6" NAD83
Land-surface elevation 2,973.30 feet above NGVD29
The depth of the well is 68 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1983-02-16		D	72019	25.05			1	Z			A
1987-10-14		D	72019	23.02			1	Z			A
1992-11-18		D	72019	25.80			1	S			A
1998-01-23		D	72019	27.74			1	S			A
2003-01-27		D	72019	29.17			1	S	USGS	S	A
2013-01-10	21:00 UTC	m	72019	31.90			1	S	USGS	S	A
2018-02-14	17:22 UTC	m	72019	39.66			3	S	USGS	S	A
2021-02-24	19:26 UTC	m	72019	35.00			1	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	True value is above reported value due to local conditions
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-08-13 17:06:41 EDT
0.38 0.26 nadww01

Appendix B
Field Data & Soil Profile Logs

Page 441 of 812

BOTJ 4EW 3SW

eTECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 6/22/21

Project: Marathon Kyle to Willow State Line

Project Number: 13714 Latitude: 32.1646 Longitude: -104.0743

Sample ID	PID/Odor	Chloride Conc.	GPS
NSW #1	—	212	
ESW #1	—	184	
WSW #1	—	304	
SSW #1	—	184	
FL #1 @ 4'	—	ND	
FL #2 @ 6'	—	ND	
FL #3 @ 6'	—	ND	
FL #4 @ 7'	—	304	
FL #5 @ 7'	—	240	
FL #6 @ 4'	—	304	
FL #7 @ 4'	—	3,092	
FL #8 @ 9'	—	5,464	
FL #9 @ 9'	—	864	
FL #7 @ 12'	—	3664	
FL #8 @ 12'	—	2832	
FL #9 @ 12'	—	1224	
NSW #2	—	1988	
SSW #2	—	500	
FL #7 @ 16'	—	2484	
FL #8 @ 16'	—	>2484	
FL #9 @ 16'	—	804	
NSW #2B	—	1224	
FL #7 @ 18'	—	1068	
FL #8 @ 18'	—	1988	
FL #9 @ 18'	—	1068	
NSW #2C 19'	—	212	
FL #7 @ 20'	—	1,224	476
FL #8 @ 20	—	1504	580
FL #9 @ 18'	—	1,068	524
SSW #3 @ 18'	—	212	
FL #12 @ 18	—	184	
WSW #2 @ 16	—	212	
WSW #3 @ 16	—	996	
WSW #4 @ 18	—	1,520	424
WSW #5 @ 18	—	[redacted]	2,296
WSW #6 @ 18	—	864	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Odometer 103 PIN 45301

Received by OCD: 8/21/2021 12:00:14 AM

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Page 442 of 812

ETECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 6-22-21

Project: Marathon Kyle to Willow StateLine

Project Number: 13714 Latitude: 32.1646 Longitude: -104.0743

Sample ID	PID/Odor	Chloride Conc.	GPS
NSW #3 @ 18'	—	416	
NSW #4 @ 18'	—	396	
FL #11 @ 18'	—	212	
FL #7 @ 20'	—	156	
FL #8 @ 20'	—	456	
FL #9 @ 15'	—	340	
FL #18 @ 20'	—	132	
FL #17 @ 10'	—		
WSW #7 @ 18'	—	1,068	
FL #15 @ 12'	—		
WSW #1 @ 12'	—	588	
FL #12 @ 18'	—	804	
FL #13 @ 18'	—	ND	
FL #14 @ 20'	—	132	
FL #16 @ 9'	—		
FL #18 @ 9'	—	1,864	
FL #19 @ 14'	—	1,076	
NSW #4 @ 4'	—	368	
ESW #2 @ 3'	—	292	
ESW #3 @ 4'	—	196	
FL #19 @ 4'	—	292	
FL #20 @ 4'	—	292	
WSW #1 @ 4'	—	196	
WSW #2 @ 4'	—	196	
[redacted] ESW #4 @ 4'	—	1156	
FL #21 @ 4'	—	368	
[redacted] / WSW #3 @ 4'	—	1,076	
ESW B #3 @ 4'	—	196	
[redacted] / WSW #4 @ 4'	—	120	
ESW B #2 @ 4'	—	196	
FL #22 @ 4'	—	[redacted] 340	
FL #23 @ 4'	—	436	
FL #24 @ 4'	—	1,252	
WSW #5 @ 4'	—	636	
FL #24 B @ 5'	—	212	
WSW #6 @ 4'	—	392	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Page 443 of 812

TECH Environmental & Safety Solutions, Inc.

Sample Log

Date: _____

Project:

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL #24 @ 5'	—		
FL# 23 @ 4'	—		
FL # 26 @ 4	—		
WSW # 6 @ 4'	—		
ESW #5 @ 5'	—		
FL #25 @ 4'	—		
FL # 27 @ 4'	—	392	
FL # 28 @ 4'	—	212	
FL # 29 @ 4'	—	392	
ES W # 7 @ 4'	—	392	
WSW # 8 @ 4'	—	152	
WSW # 7 @ 4'	—	ND	
ESW # 6 @ 4'	—	392	
WSW #9 @	—	392	
FL #30 @ 4'	—	212	
FL # 31 @ 4'	—	168	
WSW # 10 @ 4'	—	412	
ESW # 8 @ 4'	—	196	
FL # 32 @ 4'	—	144	
WSW # 12 @ 4'	—	328	
WSW # 11 @ 4'	—	304	
NSW # 5 @ 4'	—	636	
NSW # 5B @ 4'	—	484	
WSW # 14 @ 4'	—	484	
WSW #13 @ 4'	—	240	
FL # 33 @ 4'	—	212	
FL # 34 @ 4'	—	382	
SSW #4 @ 4'	—	312	
WSW #15 @ 4'	—	392	
FL # 35 @ 4'	—	212	
NSW # 6 @ 4'	—	484	
FL # 36 @ 4'	—	180	
FL # 37 @ 4'	—	180	
WSW # 16 @ 4'	—	276	
FL # 38 @ 4'	—	688	
FL # 39 @ 4'	—	1252	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Received by OCD: 8/27/2021 12:00:14 AM

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Page 444 of 812

TECH Environmental & Safety Solutions, Inc.

Sample Log

Date: _____

Project:

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
[redacted] FL #38B @ 4½	—	312	
FL #39B @ 4½	—	212	
WSW #17 @ 4	—	860	
FL #40 @ 4'	—	180	
ESW #9 @ 4'	—	212	
WSW #19B @ 4'	—	276	
ESW #10 @ 4'	—	180	
WSW #18 @ 4'	—	580	
FL #41 @ 4'	—	152	
WSW #19 @ 4'	—	312	
FL #42 @ 4'	—	ND	
WSW #18B @ 4'	—	580	
WSW #18C @ 4'	—	352	
ESW #11 @ 4'	—	312	
ESW #12 @ 4'	—	312	
FL #43 @ 4'	—	128	
WSW #20 @ 4'	—	212	
ESW #13 @ 4'	—	212	
FL #44 @ 4'	—	128	
WSW #21 @ 4'	—	240	
FL #45 @ 4'	—	ND	
WSW #22 @ 4'	—	212	
ESW #14 @ 4'	—	212	
FL #21 @ 5'	—	484	
FL #22 @ 5'	—	352	
FL #46 @ 4'	—	352	
ESW #15 @ 4'	—	TH	
WSW #23 @ 4'	—	212	
ESW #15B @ 5'	—	1,760	
FL #47 @ 5'	—	2528	
FL #47 @ 6'	—	1,252	
ESW #15C @ 6'	—	808	
ESW #15D @ 7'	—	ND	
FL #47 @ 7'	—	1,000	
FL #47 @ 9'	—	ND	
ESW #16 @ 9'	—	ND	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Page 445 of 812

TECH Environmental & Safety Solutions, Inc.

Sample Log

Date: _____

Project:

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL #48 @ 9'	—	ND	
FL #49 @ 9'	—	ND	
FL #50 @ 9'	—	ND	
FL #51 @ 9'	—	352	
FL #52 @ 9'	—	352	
SSW #5 @ 9'	—	128	
WSW #24 @ 9'	—	2,172	
WSW #24B @ 9'	—	224	
FL #51 @ 9ft 6inches	—	ND	

Page 446 of 812

eTECH Environmental & Safety Solutions, Inc.

Soil Profile

Date: 6-23-2021

Project: Marathon Kyle to Willow State Line

Project Number: 13714 Latitude: 32.1646 Longitude: -104.0743

Depth (ft. bgs)	Description
3	Topsoil
4	Red Clayey Sand w/ Gypsum
12	Resilient Gypsum / Consolidated
20	TD

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Appendix C
Photographic Log

Photographic Log

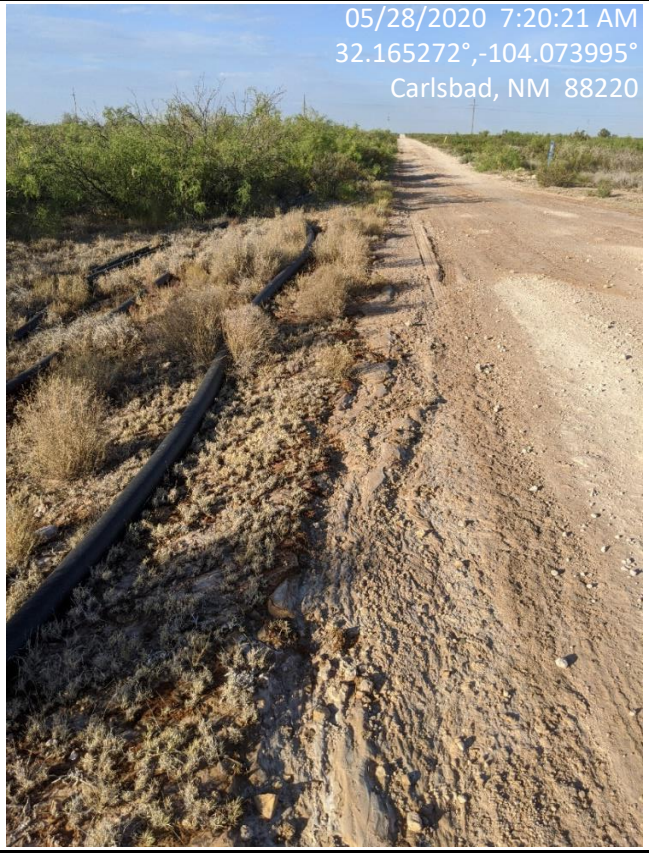
Photo Number: 1 **Photo Direction:** South-Southwest **Photo Description:** View of the affected area.	

Photo Number: 2 **Photo Direction:** South-Southwest **Photo Description:** View of the affected area.	

Photographic Log

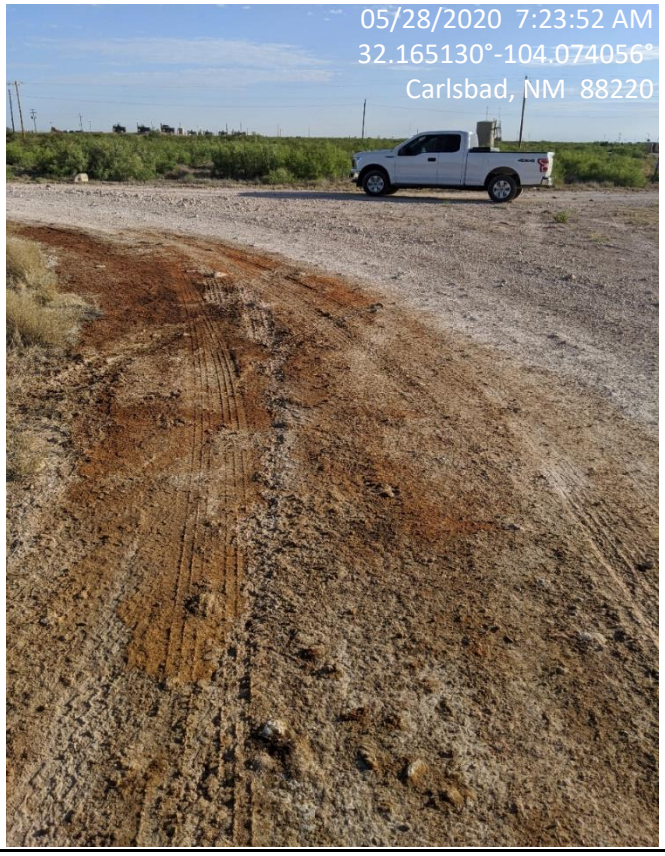
Photo Number: 3	
Photo Direction: North	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: North-Northeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 5	
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photo Number: 6	
Photo Direction: East-Southeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 7	
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

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

Photographic Log

Photo Number: 9	
Photo Direction: South-Southwest	
Photo Description: View of the remediated area after backfilling & regrading.	

Photo Number: 10	
Photo Direction: Southeast	
Photo Description: View of the remediated area after backfilling & regrading.	

Photographic Log

Photo Number: 11	
Photo Direction: South-Southwest	
Photo Description: View of the remediated area after backfilling & regrading.	

Photo Number: 12	
Photo Direction: South-Southwest	
Photo Description: View of the remediated area after backfilling & regrading.	

Photographic Log

Photo Number: 13	
Photo Direction: West-Southwest	
Photo Description: View of the remediated area after backfilling & regrading.	

Photo Number: 14	
Photo Direction: North-Northeast	
Photo Description: View of the remediated area after backfilling & regrading.	

Appendix D
Laboratory Analytical Reports

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Certificate of Analysis Summary 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Marathon Kyle to Willow State Line

Project Id: 13714
Contact: PM
Project Location: Rural Eddy County

Date Received in Lab: Fri 01.29.2021 15:34
Report Date: 02.08.2021 16:55
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	686653-001		686653-002		686653-003		686653-004		686653-005		686653-006	
	Field Id:	NH 1@ Surface		NH 1@ 1'		EH 1@ Surface		EH 1@ 1'		EH 2@ Surface		NH 2@ 1'	
	Depth:			1- ft				1- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00	
BTEX by EPA 8021B	***Extracted:***	02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30	
	Analyzed:	02.01.2021 16:04		02.01.2021 16:26		02.01.2021 16:49		02.01.2021 17:11		02.01.2021 17:34		02.01.2021 17:56	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Toluene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Ethylbenzene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
m,p-Xylenes		<0.00399	0.00399	<0.00396	0.00396	<0.00401	0.00401	<0.00401	0.00401	<0.00399	0.00399	<0.00397	0.00397
o-Xylene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Total Xylenes		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Total BTEX		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Inorganic Anions by EPA 300	***Extracted:***	01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14	
	Analyzed:	01.31.2021 02:29		01.31.2021 02:46		01.31.2021 02:52		01.31.2021 02:57		01.31.2021 03:03		01.31.2021 03:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		10.3 X	10.1	80.2	50.5	29.9	9.90	29.6	10.0	42.1	10.1	44.6	10.0
TPH by SW8015 Mod SUB: T104704400-20-21	***Extracted:***	02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00	
	Analyzed:	02.03.2021 22:43		02.03.2021 23:47		02.04.2021 00:08		02.04.2021 00:29		02.04.2021 00:50		02.04.2021 01:11	
	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	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Total TPH		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Marathon Kyle to Willow State Line

Project Id: 13714
Contact: PM
Project Location: Rural Eddy County

Date Received in Lab: Fri 01.29.2021 15:34
Report Date: 02.08.2021 16:55
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	686653-007		686653-008		686653-009		686653-010		686653-011		686653-012	
	Field Id:	SH 1@ Surface		SH 1@ 1'		WH 1@ Surface		WH 1@ 1'		WH 2@ Surface		WH 2@ 1'	
	Depth:			1- ft				1- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00	
BTEX by EPA 8021B	***Extracted:***	02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30	
	Analyzed:	02.01.2021 18:18		02.01.2021 18:41		02.01.2021 19:03		02.01.2021 19:26		02.01.2021 20:45		02.01.2021 21:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Toluene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Ethylbenzene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
m,p-Xylenes		<0.00399	0.00399	<0.00404	0.00404	<0.00401	0.00401	<0.00403	0.00403	<0.00401	0.00401	<0.00402	0.00402
o-Xylene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Total Xylenes		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Total BTEX		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Inorganic Anions by EPA 300	***Extracted:***	01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14	
	Analyzed:	01.31.2021 03:26		01.31.2021 03:31		01.31.2021 03:37		01.31.2021 03:43		01.31.2021 03:48		01.31.2021 04:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		62.2	50.4	50.5	50.5	15.1	10.0	32.9	10.0	91.9	49.6	68.1	49.5
TPH by SW8015 Mod SUB: T104704400-20-21	***Extracted:***	02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00	
	Analyzed:	02.04.2021 01:32		02.04.2021 01:53		02.04.2021 02:15		02.04.2021 02:36		02.04.2021 03:19		02.04.2021 03:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Total TPH		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9

BRL - Below Reporting Limit

Jessica Kramer

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Certificate of Analysis Summary 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Marathon Kyle to Willow State Line

Project Id: 13714
Contact: PM
Project Location: Rural Eddy County

Date Received in Lab: Fri 01.29.2021 15:34
Report Date: 02.08.2021 16:55
Project Manager: Jessica Kramer

Analysis Requested		686653-013		686653-014		686653-015		686653-016		686653-017		686653-018	
	Field Id:	SP 1@ Surface		SP 1 @ 3'		SP 2@ Surface		SP 2 @ 5'		SP 3@ Surface		SP 3 @ 4'	
	Depth:			3- ft				5- ft				4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00		01.29.2021 00:00	
BTEX by EPA 8021B	*Extracted:*	02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30		02.01.2021 10:30	
	Analyzed:	02.01.2021 21:30		02.01.2021 21:52		02.01.2021 22:15		02.01.2021 22:37		02.01.2021 23:00		02.01.2021 23:22	
	Units/RL:	mg/kg	RL	mg/kg	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	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Toluene		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Ethylbenzene		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
m,p-Xylenes		<0.00397	0.00397	<0.00397	0.00397	<0.00399	0.00399	<0.00398	0.00398	<0.00401	0.00401	<0.00397	0.00397
o-Xylene		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Total Xylenes		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Total BTEX		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Inorganic Anions by EPA 300	*Extracted:*	01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14		01.30.2021 15:14	
	Analyzed:	01.31.2021 04:11		01.31.2021 04:28		01.31.2021 04:34		01.31.2021 04:39		01.31.2021 04:45		01.31.2021 04:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		54600	1010	191	49.7	39200	1010	310	99.2	105000	1010	11200	198
TPH by SW8015 Mod SUB: T104704400-20-21	*Extracted:*	02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00		02.03.2021 17:00	
	Analyzed:	02.04.2021 04:01		02.04.2021 04:22		02.04.2021 04:43		02.04.2021 05:05		02.04.2021 05:26		02.04.2021 05:48	
	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	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Total TPH		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Marathon Kyle to Willow State Line

Project Id: 13714
Contact: PM
Project Location: Rural Eddy County

Date Received in Lab: Fri 01.29.2021 15:34
Report Date: 02.08.2021 16:55
Project Manager: Jessica Kramer

Analysis Requested																							
	Lab Id:	686653-019				686653-020				686653-021				686653-022				686653-023					
	Field Id:	SP 4@ Surface				SP 4 @ 4'				SP 5 @ Surface				SP 5 @ 5'				FL 3 @ 8'					
	Depth:					4- ft								5- ft				8- ft					
	Matrix:	SOIL				SOIL				SOIL				SOIL				SOIL					
	Sampled:	01.29.2021 00:00				01.29.2021 00:00				01.29.2021 00:00				01.29.2021 00:00				01.29.2021 00:00					
BTEX by EPA 8021B	***Extracted:***	02.01.2021 10:30				02.01.2021 10:30				02.01.2021 15:32				02.01.2021 15:32				02.01.2021 15:32					
	Analyzed:	02.01.2021 23:45				02.02.2021 00:07				02.02.2021 04:17				02.02.2021 04:39				02.02.2021 05:01					
	Units/RL:	mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL				
Benzene		<0.00200	0.00200			<0.00200	0.00200			<0.00199	0.00199			<0.00200	0.00200			<0.00199	0.00199				
Toluene		<0.00200	0.00200			<0.00200	0.00200			<0.00199	0.00199			<0.00200	0.00200			<0.00199	0.00199				
Ethylbenzene		<0.00200	0.00200			<0.00200	0.00200			<0.00199	0.00199			<0.00200	0.00200			<0.00199	0.00199				
m,p-Xylenes		<0.00399	0.00399			<0.00401	0.00401			<0.00398	0.00398			<0.00399	0.00399			<0.00398	0.00398				
o-Xylene		<0.00200	0.00200			<0.00200	0.00200			<0.00199	0.00199			<0.00200	0.00200			<0.00199	0.00199				
Total Xylenes		<0.00200	0.00200			<0.00200	0.00200			<0.00199	0.00199			<0.00200	0.00200			<0.00199	0.00199				
Total BTEX		<0.00200	0.00200			<0.00200	0.00200			<0.00199	0.00199			<0.00200	0.00200			<0.00199	0.00199				
Inorganic Anions by EPA 300	***Extracted:***	01.30.2021 15:14				01.30.2021 15:14				01.30.2021 17:00				01.30.2021 17:00				01.30.2021 17:00					
	Analyzed:	01.31.2021 04:56				01.31.2021 05:02				02.01.2021 08:08				02.01.2021 08:25				02.01.2021 08:31					
	Units/RL:	mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL				
Chloride		26900	1000			237	201			48200	992			762	202			7070	200				
TPH by SW8015 Mod SUB: T104704400-20-21	***Extracted:***	02.03.2021 17:00				02.03.2021 17:00				02.03.2021 17:00				02.03.2021 17:00				02.06.2021 09:00					
	Analyzed:	02.04.2021 06:09				02.04.2021 06:30				02.04.2021 06:30				02.04.2021 06:09				02.07.2021 05:02					
	Units/RL:	mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL			mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9			<50.0	50.0			<50.0	50.0			<49.9	49.9			<50.0	50.0				
Diesel Range Organics (DRO)		226	49.9			<50.0	50.0			1600	50.0			<49.9	49.9			<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9			<50.0	50.0			387	50.0			<49.9	49.9			<50.0	50.0				
Total TPH		226	49.9			<50.0	50.0			1990	50.0			<49.9	49.9			<50.0	50.0				

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer

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Analytical Report 686653

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Marathon Kyle to Willow State Line

13714

02.08.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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02.08.2021

Project Manager: **PM**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **686653**
Marathon Kyle to Willow State Line
Project Address: Rural Eddy County

PM :

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 Eurofins Xenco, LLC Report Number(s) 686653. 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 Eurofins Xenco, LLC. 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. 686653 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 Eurofins Xenco, LLC 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 Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NH 1@ Surface	S	01.29.2021 00:00		686653-001
NH 1@ 1'	S	01.29.2021 00:00	1 ft	686653-002
EH 1@ Surface	S	01.29.2021 00:00		686653-003
EH 1@ 1'	S	01.29.2021 00:00	1 ft	686653-004
EH 2@ Surface	S	01.29.2021 00:00		686653-005
NH 2@ 1'	S	01.29.2021 00:00	1 ft	686653-006
SH 1@ Surface	S	01.29.2021 00:00		686653-007
SH 1@ 1'	S	01.29.2021 00:00	1 ft	686653-008
WH 1@ Surface	S	01.29.2021 00:00		686653-009
WH 1@ 1'	S	01.29.2021 00:00	1 ft	686653-010
WH 2@ Surface	S	01.29.2021 00:00		686653-011
WH 2@ 1'	S	01.29.2021 00:00	1 ft	686653-012
SP 1@ Surface	S	01.29.2021 00:00		686653-013
SP 1 @ 3'	S	01.29.2021 00:00	3 ft	686653-014
SP 2@ Surface	S	01.29.2021 00:00		686653-015
SP 2 @ 5'	S	01.29.2021 00:00	5 ft	686653-016
SP 3@ Surface	S	01.29.2021 00:00		686653-017
SP 3 @ 4'	S	01.29.2021 00:00	4 ft	686653-018
SP 4@ Surface	S	01.29.2021 00:00		686653-019
SP 4 @ 4'	S	01.29.2021 00:00	4 ft	686653-020
SP 5 @ Surface	S	01.29.2021 00:00		686653-021
SP 5 @ 5'	S	01.29.2021 00:00	5 ft	686653-022
FL 3 @ 8'	S	01.29.2021 00:00	8 ft	686653-023

CASE NARRATIVE

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Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Marathon Kyle to Willow State Line

Project ID: *13714*
Work Order Number(s): *686653*

Report Date: *02.08.2021*
Date Received: *01.29.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3149506 Inorganic Anions by EPA 300

Lab Sample ID 686653-011 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: 686653-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3150001 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 686653-019.

Batch: LBA-3150325 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7721013-1-BLK.

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **NH 1@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-001 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.3**	10.1	mg/kg	01.31.2021 02:29	X	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.03.2021 22:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.03.2021 22:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.03.2021 22:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.03.2021 22:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	02.03.2021 22:43	
o-Terphenyl	84-15-1	111	%	70-130	02.03.2021 22:43	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**NH 1@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-001	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 16:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 16:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 16:04	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.01.2021 16:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 16:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 16:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 16:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.01.2021 16:04	
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.01.2021 16:04	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**NH 1@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-002	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P

Tech: MAB
Analyst: MAB
Seq Number: 3149506

Date Prep: 01.30.2021 15:14

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**80.2**	50.5	mg/kg	01.31.2021 02:46		5

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P

Tech: DVM
Analyst: ARM
Seq Number: 3150001

Date Prep: 02.03.2021 17:00

% Moisture:
Basis: Wet Weight
SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.03.2021 23:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.03.2021 23:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.03.2021 23:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.03.2021 23:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	02.03.2021 23:47	
o-Terphenyl	84-15-1	119	%	70-130	02.03.2021 23:47	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**NH 1@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-002	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.01.2021 16:26	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.01.2021 16:26	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.01.2021 16:26	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	02.01.2021 16:26	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.01.2021 16:26	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.01.2021 16:26	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.01.2021 16:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	02.01.2021 16:26	
1,4-Difluorobenzene	540-36-3	100	%	70-130	02.01.2021 16:26	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **EH 1@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-003 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**29.9**	9.90	mg/kg	01.31.2021 02:52		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 00:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.04.2021 00:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 00:08	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.04.2021 00:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	02.04.2021 00:08	
o-Terphenyl	84-15-1	118	%	70-130	02.04.2021 00:08	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**EH 1@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-003	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 16:49	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 16:49	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 16:49	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.01.2021 16:49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 16:49	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 16:49	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 16:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.01.2021 16:49	
1,4-Difluorobenzene	540-36-3	94	%	70-130	02.01.2021 16:49	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **EH 1@ 1'** Matrix: Soil Date Received:01.29.2021 15:34
Lab Sample Id: 686653-004 Date Collected: 01.29.2021 00:00 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: MAB
Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:
Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**29.6**	10.0	mg/kg	01.31.2021 02:57		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM
Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:
Seq Number: 3150001 Basis: Wet Weight
SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.04.2021 00:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.04.2021 00:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.04.2021 00:29	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.04.2021 00:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	02.04.2021 00:29	
o-Terphenyl	84-15-1	123	%	70-130	02.04.2021 00:29	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**EH 1@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-004	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 17:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 17:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 17:11	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.01.2021 17:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 17:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 17:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 17:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	02.01.2021 17:11	
4-Bromofluorobenzene	460-00-4	100	%	70-130	02.01.2021 17:11	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **EH 2@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-005 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**42.1**	10.1	mg/kg	01.31.2021 03:03		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 00:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 00:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 00:50	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 00:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	02.04.2021 00:50	
o-Terphenyl	84-15-1	121	%	70-130	02.04.2021 00:50	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**EH 2@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-005	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 17:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 17:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 17:34	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.01.2021 17:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 17:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 17:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 17:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	02.01.2021 17:34	
1,4-Difluorobenzene	540-36-3	101	%	70-130	02.01.2021 17:34	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **NH 2@ 1'** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-006 Date Collected: 01.29.2021 00:00 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**44.6**	10.0	mg/kg	01.31.2021 03:20		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 01:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 01:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 01:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 01:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	02.04.2021 01:11	
o-Terphenyl	84-15-1	124	%	70-130	02.04.2021 01:11	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**NH 2@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-006	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.01.2021 17:56	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.01.2021 17:56	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.01.2021 17:56	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.01.2021 17:56	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.01.2021 17:56	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.01.2021 17:56	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.01.2021 17:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	02.01.2021 17:56	
1,4-Difluorobenzene	540-36-3	97	%	70-130	02.01.2021 17:56	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SH 1@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-007 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**62.2**	50.4	mg/kg	01.31.2021 03:26		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 01:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.04.2021 01:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 01:32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.04.2021 01:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	02.04.2021 01:32	
o-Terphenyl	84-15-1	121	%	70-130	02.04.2021 01:32	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SH 1@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-007	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 18:18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 18:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 18:18	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.01.2021 18:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 18:18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 18:18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 18:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	02.01.2021 18:18	
4-Bromofluorobenzene	460-00-4	100	%	70-130	02.01.2021 18:18	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SH 1@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-008	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P

Tech: MAB
Analyst: MAB
Seq Number: 3149506

Date Prep: 01.30.2021 15:14

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**50.5**	50.5	mg/kg	01.31.2021 03:31		5

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P

Tech: DVM
Analyst: ARM
Seq Number: 3150001

Date Prep: 02.03.2021 17:00

% Moisture:
Basis: Wet Weight
SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 01:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 01:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 01:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 01:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	02.04.2021 01:53	
o-Terphenyl	84-15-1	125	%	70-130	02.04.2021 01:53	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SH 1@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-008	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.01.2021 18:41	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.01.2021 18:41	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.01.2021 18:41	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	02.01.2021 18:41	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.01.2021 18:41	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.01.2021 18:41	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.01.2021 18:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	02.01.2021 18:41	
1,4-Difluorobenzene	540-36-3	102	%	70-130	02.01.2021 18:41	

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Marathon Kyle to Willow State Line

Sample Id: **WH 1@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-009 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.1**	10.0	mg/kg	01.31.2021 03:37		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 02:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.04.2021 02:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 02:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.04.2021 02:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	02.04.2021 02:15	
o-Terphenyl	84-15-1	123	%	70-130	02.04.2021 02:15	

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Marathon Kyle to Willow State Line

Sample Id:	**WH 1@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-009	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 19:03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 19:03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 19:03	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.01.2021 19:03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 19:03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 19:03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 19:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	02.01.2021 19:03	
1,4-Difluorobenzene	540-36-3	99	%	70-130	02.01.2021 19:03	

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Marathon Kyle to Willow State Line

Sample Id: **WH 1@ 1'** Matrix: Soil Date Received:01.29.2021 15:34
Lab Sample Id: 686653-010 Date Collected: 01.29.2021 00:00 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: MAB
Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:
Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**32.9**	10.0	mg/kg	01.31.2021 03:43		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM
Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:
Seq Number: 3150001 Basis: Wet Weight
SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.04.2021 02:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.04.2021 02:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.04.2021 02:36	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.04.2021 02:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	02.04.2021 02:36	
o-Terphenyl	84-15-1	118	%	70-130	02.04.2021 02:36	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**WH 1@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-010	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.01.2021 19:26	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.01.2021 19:26	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.01.2021 19:26	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.01.2021 19:26	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.01.2021 19:26	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.01.2021 19:26	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.01.2021 19:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	02.01.2021 19:26	
1,4-Difluorobenzene	540-36-3	99	%	70-130	02.01.2021 19:26	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **WH 2@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-011 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**91.9**	49.6	mg/kg	01.31.2021 03:48		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 03:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 03:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 03:19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 03:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	02.04.2021 03:19	
o-Terphenyl	84-15-1	120	%	70-130	02.04.2021 03:19	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**WH 2@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-011	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 20:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 20:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 20:45	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.01.2021 20:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 20:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 20:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 20:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.01.2021 20:45	
4-Bromofluorobenzene	460-00-4	99	%	70-130	02.01.2021 20:45	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **WH 2@ 1'** Matrix: Soil Date Received:01.29.2021 15:34
Lab Sample Id: 686653-012 Date Collected: 01.29.2021 00:00 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: MAB
Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:
Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**68.1**	49.5	mg/kg	01.31.2021 04:05		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM
Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:
Seq Number: 3150001 Basis: Wet Weight
SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 03:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.04.2021 03:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 03:40	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.04.2021 03:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	02.04.2021 03:40	
o-Terphenyl	84-15-1	127	%	70-130	02.04.2021 03:40	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**WH 2@ 1'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-012	Date Collected:	01.29.2021 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.01.2021 21:08	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.01.2021 21:08	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.01.2021 21:08	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.01.2021 21:08	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.01.2021 21:08	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.01.2021 21:08	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.01.2021 21:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	02.01.2021 21:08	
1,4-Difluorobenzene	540-36-3	93	%	70-130	02.01.2021 21:08	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SP 1@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-013 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**54600**	1010	mg/kg	01.31.2021 04:11		100

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 04:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 04:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 04:01	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 04:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	02.04.2021 04:01	
o-Terphenyl	84-15-1	104	%	70-130	02.04.2021 04:01	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 1@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-013	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.01.2021 21:30	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.01.2021 21:30	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.01.2021 21:30	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.01.2021 21:30	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.01.2021 21:30	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.01.2021 21:30	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.01.2021 21:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	02.01.2021 21:30	
1,4-Difluorobenzene	540-36-3	100	%	70-130	02.01.2021 21:30	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 1 @ 3'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-014	Date Collected:	01.29.2021 00:00	Sample Depth:	3 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.30.2021 15:14	% Moisture:	
Seq Number:	3149506			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**191**	49.7	mg/kg	01.31.2021 04:28		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.03.2021 17:00	% Moisture:	
Seq Number:	3150001			Basis:	Wet Weight
				SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 04:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 04:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 04:22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 04:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	02.04.2021 04:22	
o-Terphenyl	84-15-1	110	%	70-130	02.04.2021 04:22	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 1 @ 3'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-014	Date Collected:	01.29.2021 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.01.2021 21:52	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.01.2021 21:52	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.01.2021 21:52	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.01.2021 21:52	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.01.2021 21:52	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.01.2021 21:52	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.01.2021 21:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	02.01.2021 21:52	
1,4-Difluorobenzene	540-36-3	98	%	70-130	02.01.2021 21:52	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SP 2@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-015 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**39200**	1010	mg/kg	01.31.2021 04:34		100

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 04:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.04.2021 04:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 04:43	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.04.2021 04:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	02.04.2021 04:43	
o-Terphenyl	84-15-1	124	%	70-130	02.04.2021 04:43	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 2@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-015	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 22:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 22:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 22:15	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.01.2021 22:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 22:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 22:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 22:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.01.2021 22:15	
4-Bromofluorobenzene	460-00-4	109	%	70-130	02.01.2021 22:15	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 2 @ 5'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-016	Date Collected:	01.29.2021 00:00	Sample Depth:	5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.30.2021 15:14	% Moisture:	
Seq Number:	3149506			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**310**	99.2	mg/kg	01.31.2021 04:39		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.03.2021 17:00	% Moisture:	
Seq Number:	3150001			Basis:	Wet Weight
				SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 05:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 05:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 05:05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 05:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	02.04.2021 05:05	
o-Terphenyl	84-15-1	117	%	70-130	02.04.2021 05:05	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 2 @ 5'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-016	Date Collected:	01.29.2021 00:00	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.01.2021 22:37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.01.2021 22:37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.01.2021 22:37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.01.2021 22:37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.01.2021 22:37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.01.2021 22:37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.01.2021 22:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.01.2021 22:37	
4-Bromofluorobenzene	460-00-4	107	%	70-130	02.01.2021 22:37	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SP 3@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-017 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**105000**	1010	mg/kg	01.31.2021 04:45		100

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 05:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.04.2021 05:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 05:26	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.04.2021 05:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	02.04.2021 05:26	
o-Terphenyl	84-15-1	123	%	70-130	02.04.2021 05:26	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 3@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-017	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 23:00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 23:00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 23:00	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.01.2021 23:00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 23:00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 23:00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 23:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	02.01.2021 23:00	
4-Bromofluorobenzene	460-00-4	98	%	70-130	02.01.2021 23:00	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 3 @ 4'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-018	Date Collected:	01.29.2021 00:00	Sample Depth:	4 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.30.2021 15:14	% Moisture:	
Seq Number:	3149506			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11200**	198	mg/kg	01.31.2021 04:51		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.03.2021 17:00	% Moisture:	
Seq Number:	3150001			Basis:	Wet Weight
				SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 05:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 05:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 05:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 05:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	02.04.2021 05:48	
o-Terphenyl	84-15-1	121	%	70-130	02.04.2021 05:48	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 3 @ 4'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-018	Date Collected:	01.29.2021 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.01.2021 23:22	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.01.2021 23:22	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.01.2021 23:22	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.01.2021 23:22	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.01.2021 23:22	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.01.2021 23:22	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.01.2021 23:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	02.01.2021 23:22	
4-Bromofluorobenzene	460-00-4	104	%	70-130	02.01.2021 23:22	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SP 4@ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-019 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 15:14 % Moisture:

Seq Number: 3149506 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**26900**	1000	mg/kg	01.31.2021 04:56		100

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150001 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 06:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	**226**	49.9	mg/kg	02.04.2021 06:09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 06:09	U	1
Total TPH	PHC635	**226**	49.9	mg/kg	02.04.2021 06:09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-130	02.04.2021 06:09	
o-Terphenyl	84-15-1	136	%	70-130	02.04.2021 06:09	**

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 4@ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-019	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.01.2021 23:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.01.2021 23:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.01.2021 23:45	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.01.2021 23:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.01.2021 23:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.01.2021 23:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.01.2021 23:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	02.01.2021 23:45	
1,4-Difluorobenzene	540-36-3	101	%	70-130	02.01.2021 23:45	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 4 @ 4'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-020	Date Collected:	01.29.2021 00:00	Sample Depth:	4 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.30.2021 15:14	% Moisture:	
Seq Number:	3149506			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**237**	201	mg/kg	01.31.2021 05:02		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.03.2021 17:00	% Moisture:	
Seq Number:	3150001			Basis:	Wet Weight
				SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 06:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.04.2021 06:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.04.2021 06:30	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.04.2021 06:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	02.04.2021 06:30	
o-Terphenyl	84-15-1	116	%	70-130	02.04.2021 06:30	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 4 @ 4'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-020	Date Collected:	01.29.2021 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 10:30	% Moisture:	
Seq Number:	3149683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.02.2021 00:07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.02.2021 00:07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.02.2021 00:07	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.02.2021 00:07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.02.2021 00:07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.02.2021 00:07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.02.2021 00:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	02.02.2021 00:07	
1,4-Difluorobenzene	540-36-3	102	%	70-130	02.02.2021 00:07	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SP 5 @ Surface** Matrix: Soil Date Received:01.29.2021 15:34

Lab Sample Id: 686653-021 Date Collected: 01.29.2021 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 01.30.2021 17:00 % Moisture:

Seq Number: 3149574 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**48200**	992	mg/kg	02.01.2021 08:08		100

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 02.03.2021 17:00 % Moisture:

Seq Number: 3150009 Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.2021 06:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1600**	50.0	mg/kg	02.04.2021 06:30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**387**	50.0	mg/kg	02.04.2021 06:30		1
Total TPH	PHC635	**1990**	50.0	mg/kg	02.04.2021 06:30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	02.04.2021 06:30	
o-Terphenyl	84-15-1	121	%	70-130	02.04.2021 06:30	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 5 @ Surface**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-021	Date Collected:	01.29.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 15:32	% Moisture:	
Seq Number:	3149922			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.02.2021 04:17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.02.2021 04:17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.02.2021 04:17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.02.2021 04:17	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.02.2021 04:17	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.02.2021 04:17	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.02.2021 04:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	02.02.2021 04:17	
1,4-Difluorobenzene	540-36-3	105	%	70-130	02.02.2021 04:17	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 5 @ 5'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-022	Date Collected:	01.29.2021 00:00	Sample Depth:	5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.30.2021 17:00	% Moisture:	
Seq Number:	3149574			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**762**	202	mg/kg	02.01.2021 08:25		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.03.2021 17:00	% Moisture:	
Seq Number:	3150009			Basis:	Wet Weight
				SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.2021 06:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.04.2021 06:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.04.2021 06:09	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.04.2021 06:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	02.04.2021 06:09	
o-Terphenyl	84-15-1	99	%	70-130	02.04.2021 06:09	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**SP 5 @ 5'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-022	Date Collected:	01.29.2021 00:00	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 15:32	% Moisture:	
Seq Number:	3149922			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.02.2021 04:39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.02.2021 04:39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.02.2021 04:39	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.02.2021 04:39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.02.2021 04:39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.02.2021 04:39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.02.2021 04:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	02.02.2021 04:39	
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.02.2021 04:39	

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Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**FL 3 @ 8'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-023	Date Collected:	01.29.2021 00:00	Sample Depth:	8 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.30.2021 17:00	% Moisture:	
Seq Number:	3149574			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7070**	200	mg/kg	02.01.2021 08:31		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.06.2021 09:00	% Moisture:	
Seq Number:	3150325			Basis:	Wet Weight
				SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.07.2021 05:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.07.2021 05:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.07.2021 05:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.07.2021 05:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	02.07.2021 05:02	
o-Terphenyl	84-15-1	124	%	70-130	02.07.2021 05:02	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id:	**FL 3 @ 8'**	Matrix:	Soil	Date Received:	01.29.2021 15:34
Lab Sample Id:	686653-023	Date Collected:	01.29.2021 00:00	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.01.2021 15:32	% Moisture:	
Seq Number:	3149922			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.02.2021 05:01	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.02.2021 05:01	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.02.2021 05:01	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.02.2021 05:01	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.02.2021 05:01	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.02.2021 05:01	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.02.2021 05:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	02.02.2021 05:01	
1,4-Difluorobenzene	540-36-3	100	%	70-130	02.02.2021 05:01	

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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.

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. **ND** Not Detected.

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

QC Summary 686653

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Marathon Kyle to Willow State Line

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3149506 — Matrix: Solid — Date Prep: 01.30.2021
MB Sample Id: 7720399-1-BLK — LCS Sample Id: 7720399-1-BKS — LCSD Sample Id: 7720399-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	204	102	201	101	90-110	1	20	mg/kg	01.31.2021 02:18	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3149574 — Matrix: Solid — Date Prep: 01.30.2021
MB Sample Id: 7720400-1-BLK — LCS Sample Id: 7720400-1-BKS — LCSD Sample Id: 7720400-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	196	98	195	98	90-110	1	20	mg/kg	02.01.2021 07:57	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3149506 — Matrix: Soil — Date Prep: 01.30.2021
Parent Sample Id: 686653-001 — MS Sample Id: 686653-001 S — MSD Sample Id: 686653-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.3	198	272	132	278	135	90-110	2	20	mg/kg	01.31.2021 02:35	X

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3149506 — Matrix: Soil — Date Prep: 01.30.2021
Parent Sample Id: 686653-011 — MS Sample Id: 686653-011 S — MSD Sample Id: 686653-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	91.9	201	278	93	274	91	90-110	1	20	mg/kg	01.31.2021 03:54	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3149574 — Matrix: Soil — Date Prep: 01.30.2021
Parent Sample Id: 686653-021 — MS Sample Id: 686653-021 S — MSD Sample Id: 686653-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	48200	200	48400	100	48400	100	90-110	0	20	mg/kg	02.01.2021 08:14	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3149574 — Matrix: Soil — Date Prep: 01.30.2021
Parent Sample Id: 686654-008 — MS Sample Id: 686654-008 S — MSD Sample Id: 686654-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	79.0	200	279	100	279	101	90-110	0	20	mg/kg	02.01.2021 09:34	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 686653

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Marathon Kyle to Willow State Line

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3150001 — Matrix: Solid — Date Prep: 02.03.2021
MB Sample Id: 7720760-1-BLK — LCS Sample Id: 7720760-1-BKS — LCSD Sample Id: 7720760-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1090	109	1120	112	70-130	3	20	mg/kg	02.03.2021 22:01	
Diesel Range Organics (DRO)	<50.0	1000	1050	105	1060	106	70-130	1	20	mg/kg	02.03.2021 22:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		106		110		70-130	%	02.03.2021 22:01
o-Terphenyl	128		113		114		70-130	%	02.03.2021 22:01

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3150009 — Matrix: Solid — Date Prep: 02.03.2021
MB Sample Id: 7720763-1-BLK — LCS Sample Id: 7720763-1-BKS — LCSD Sample Id: 7720763-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	917	92	904	90	70-130	1	20	mg/kg	02.03.2021 22:01	
Diesel Range Organics (DRO)	<50.0	1000	1040	104	1030	103	70-130	1	20	mg/kg	02.03.2021 22:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		105		106		70-130	%	02.03.2021 22:01
o-Terphenyl	125		111		111		70-130	%	02.03.2021 22:01

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3150325 — Matrix: Solid — Date Prep: 02.06.2021
MB Sample Id: 7721013-1-BLK — LCS Sample Id: 7721013-1-BKS — LCSD Sample Id: 7721013-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1030	103	1060	106	70-130	3	20	mg/kg	02.06.2021 22:01	
Diesel Range Organics (DRO)	<50.0	1000	979	98	1000	100	70-130	2	20	mg/kg	02.06.2021 22:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		102		114		70-130	%	02.06.2021 22:01
o-Terphenyl	138	**	124		127		70-130	%	02.06.2021 22:01

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3150001 — Matrix: Solid — Date Prep: 02.03.2021
MB Sample Id: 7720760-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.03.2021 21:39	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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 Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 686653

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Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3150009 Matrix: Solid Date Prep: 02.03.2021
MB Sample Id: 7720763-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.03.2021 21:39	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3150325 Matrix: Solid Date Prep: 02.06.2021
MB Sample Id: 7721013-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.06.2021 21:39	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3150001 Matrix: Soil Date Prep: 02.03.2021
Parent Sample Id: 686653-001 MS Sample Id: 686653-001 S MSD Sample Id: 686653-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	988	99	998	100	70-130	1	20	mg/kg	02.03.2021 23:04	
Diesel Range Organics (DRO)	<49.9	997	921	92	929	93	70-130	1	20	mg/kg	02.03.2021 23:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	89		89		70-130	%	02.03.2021 23:04
o-Terphenyl	91		91		70-130	%	02.03.2021 23:04

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3150009 Matrix: Soil Date Prep: 02.03.2021
Parent Sample Id: 686580-001 MS Sample Id: 686580-001 S MSD Sample Id: 686580-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	833	84	846	85	70-130	2	20	mg/kg	02.03.2021 23:04	
Diesel Range Organics (DRO)	<49.9	997	899	90	933	93	70-130	4	20	mg/kg	02.03.2021 23:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	84		87		70-130	%	02.03.2021 23:04
o-Terphenyl	84		87		70-130	%	02.03.2021 23:04

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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 Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 686653

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Marathon Kyle to Willow State Line

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3150325 Matrix: Soil Date Prep: 02.06.2021
Parent Sample Id: 687429-001 MS Sample Id: 687429-001 S MSD Sample Id: 687429-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	26.2	997	996	97	1030	100	70-130	3	20	mg/kg	02.06.2021 23:06	
Diesel Range Organics (DRO)	619	997	1540	92	1570	95	70-130	2	20	mg/kg	02.06.2021 23:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		100		70-130	%	02.06.2021 23:06
o-Terphenyl	100		101		70-130	%	02.06.2021 23:06

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3149683 Matrix: Solid Date Prep: 02.01.2021
MB Sample Id: 7720505-1-BLK LCS Sample Id: 7720505-1-BKS LCSD Sample Id: 7720505-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0936	94	0.0927	93	70-130	1	35	mg/kg	02.01.2021 14:00	
Toluene	<0.00200	0.100	0.0935	94	0.0936	94	70-130	0	35	mg/kg	02.01.2021 14:00	
Ethylbenzene	<0.00200	0.100	0.0971	97	0.0989	99	71-129	2	35	mg/kg	02.01.2021 14:00	
m,p-Xylenes	<0.00400	0.200	0.198	99	0.197	99	70-135	1	35	mg/kg	02.01.2021 14:00	
o-Xylene	<0.00200	0.100	0.0990	99	0.0966	97	71-133	2	35	mg/kg	02.01.2021 14:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		93		93		70-130	%	02.01.2021 14:00
4-Bromofluorobenzene	103		97		93		70-130	%	02.01.2021 14:00

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3149922 Matrix: Solid Date Prep: 02.01.2021
MB Sample Id: 7720508-1-BLK LCS Sample Id: 7720508-1-BKS LCSD Sample Id: 7720508-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0954	95	0.0890	89	70-130	7	35	mg/kg	02.02.2021 02:12	
Toluene	<0.00200	0.100	0.0961	96	0.0879	88	70-130	9	35	mg/kg	02.02.2021 02:12	
Ethylbenzene	<0.00200	0.100	0.0971	97	0.0861	86	71-129	12	35	mg/kg	02.02.2021 02:12	
m,p-Xylenes	<0.00400	0.200	0.196	98	0.170	85	70-135	14	35	mg/kg	02.02.2021 02:12	
o-Xylene	<0.00200	0.100	0.0963	96	0.0879	88	71-133	9	35	mg/kg	02.02.2021 02:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		94		96		70-130	%	02.02.2021 02:12
4-Bromofluorobenzene	96		97		93		70-130	%	02.02.2021 02:12

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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 Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 686653

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Marathon Kyle to Willow State Line

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3149683 Matrix: Soil Date Prep: 02.01.2021
Parent Sample Id: 686653-001 MS Sample Id: 686653-001 S MSD Sample Id: 686653-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.0969	97	70-130	8	35	mg/kg	02.01.2021 14:44	
Toluene	<0.00200	0.100	0.0980	98	0.0993	99	70-130	1	35	mg/kg	02.01.2021 14:44	
Ethylbenzene	<0.00200	0.100	0.0966	97	0.0976	98	71-129	1	35	mg/kg	02.01.2021 14:44	
m,p-Xylenes	<0.00401	0.200	0.195	98	0.199	100	70-135	2	35	mg/kg	02.01.2021 14:44	
o-Xylene	<0.00200	0.100	0.0994	99	0.0994	100	71-133	0	35	mg/kg	02.01.2021 14:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		95		70-130	%	02.01.2021 14:44
4-Bromofluorobenzene	92		101		70-130	%	02.01.2021 14:44

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3149922 Matrix: Soil Date Prep: 02.01.2021
Parent Sample Id: 686653-021 MS Sample Id: 686653-021 S MSD Sample Id: 686653-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0949	95	0.0981	98	70-130	3	35	mg/kg	02.02.2021 16:28	
Toluene	<0.00200	0.0998	0.0899	90	0.0966	97	70-130	7	35	mg/kg	02.02.2021 16:28	
Ethylbenzene	<0.00200	0.0998	0.0928	93	0.0992	99	71-129	7	35	mg/kg	02.02.2021 16:28	
m,p-Xylenes	<0.00399	0.200	0.183	92	0.201	101	70-135	9	35	mg/kg	02.02.2021 16:28	
o-Xylene	<0.00200	0.0998	0.0935	94	0.0982	98	71-133	5	35	mg/kg	02.02.2021 16:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		96		70-130	%	02.02.2021 16:28
4-Bromofluorobenzene	94		98		70-130	%	02.02.2021 16:28

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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 Spike
B = Spike Added
D = MSD/LCSD % Rec

Page 516 of 812

XENCO LABORATORIES

Chain of Custody

Work Order No: 6586653

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 www.xenco.com Page 1 of 3

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Solaris
Address:	3300 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	PM@etechenviron+client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Wilbo State line	Turn Around	
Project Number:	13714	Routine	☑
Project Location	Rural Eddy County	Rush:	
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	6.4/6.2	Thermometer ID	
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	23

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	BTEX	TPH
	NH1 @ surface	S	1.29.21		-	1	X	X	X
	NH1 @ 1'	S	1.29.21		@1'	1	X	X	X
	EH1 @ surface	S	1.29.21		-	1	X	X	X
	EH1 @ 1'	S	1.29.21		1'	1	X	X	X
	EH2 @ surface	S	1.29.21		-	1	X	X	X
	EH2 @ 1'	S	1.29.21		1'	1	X	X	X
	SH1 @ surface	S	1.29.21		-	1	X	X	X
	SH1 @ 1'	S	1.29.21		1'	1	X	X	X
	WH1 @ surface	S	1.29.21		-	1	X	X	X
	WH1 @ 1'	S	1.29.21		1'	1	X	X	X

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Rae Ceft	1.29.21 1534	2		
			4		
			6		

Revised Date 022619 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM
Final 1.000
Page 61 of 67

Page 517 of 812

Chain of Custody

Work Order No: 6866653

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701
www.xenco.com

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	ETech Environmental & Safety	Company Name:	Solaris
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	PM@etechenv.com + client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow Station	Turn Around	
Project Number:	13714	Routine	☒
Project Location	Rural Eddy county	Rush:	
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice:	Yes No
Temperature (°C):		Thermometer ID	See Page 1
Received Intact:	Yes No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	BTEX	TPH	Sample Comments
	WH2 @ surface	S	1.29.21		–	1	X	X	X	
	WH2 @ 1'	S	1.29.21		1'	1	X	X	X	
	SP1 @ surface	S	1.29.21		–	1	X	X	X	
	SP1 @ 3'	S	1.29.21		3'	1	X	X	X	
	SP2 @ surface	S	1.29.21		–	1	X	X	X	
	SP2 @ 5'	S	1.29.21		5'	1	X	X	X	
	SP3 @ surface	S	1.29.21		–	1	X	X	X	
	SP3 @ 4'	S	1.29.21		4'	1	X	X	X	
	SP4 @ surface	S	1.29.21		–	1	X	X	X	
	SP4 @ 4'	S	1.29.21		4'	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1.29.21 1534	2		
			4		
			6		

Revised Date 022619 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Final 1.000
Page 62 of 67
Released to Imaging: 12/1/2021 8:29:26 AM

Page 518 of 812

XENCO LABORATORIES

Chain of Custody

Work Order No: 16866653

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 www.xenco.com Page 3 of 3

Project Manager:	Joe Lowry	Bill to: (if different)	
Company Name:	ETech Environmental & Safety	Company Name:	Solaris
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	PM@etechenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to willow State Line	Turn Around	
Project Number:	13714	Routine	☑
Project Location	Rural Eddy county	Rush:	
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):		Thermometer ID	See Tracer
Received Intact:	~~Yes~~ No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Total Containers:	

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	Chlorides	BTEX	TPH	Sample Comments
	SP5@surface	S	1.29.21		-	1		X	X	X	
	SP5@5'	S	1.29.21		5'	1		X	X	X	
	FL3@8'	S	1.29.21		8'	1		X			Chlorides only!

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. ~~A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.~~

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Ave Cuffle	1-29-21 1534			
			4		
			6		

Revised Date 022619 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Final 1.000
Page 63 of 67
Released to Imaging: 12/1/2021 8:29:26 AM

Inter-Office Shipment

IOS Number : 77441

Date/Time:	02.01.2021	Created by:	Cloe Clifton	Please send report to:	Jessica Kramer
Lab# From:	**Carlsbad**	Delivery Priority:		Address:	1089 N Canal Street
Lab# To:	**Midland**	Air Bill No.:		E-Mail:	jessica.kramer@eurofinset.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
686653-001	S	NH 1@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-002	S	NH 1@ 1'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-003	S	EH 1@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-004	S	EH 1@ 1'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-005	S	EH 2@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-006	S	NH 2@ 1'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-007	S	SH 1@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-008	S	SH 1@ 1'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-009	S	WH 1@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-010	S	WH 1@ 1'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-011	S	WH 2@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-012	S	WH 2@ 1'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-013	S	SP 1@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-014	S	SP 1 @ 3'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-015	S	SP 2@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-016	S	SP 2 @ 5'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-017	S	SP 3@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-018	S	SP 3 @ 4'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-019	S	SP 4@ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-020	S	SP 4 @ 4'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-021	S	SP 5 @ Surface	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-022	S	SP 5 @ 5'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	
686653-023	S	FL 3 @ 8'	01.29.2021 00:00	SW8015MOD_NM	TPH by SW8015 Mod	02.04.2021	02.12.2021	JKR	PHCC10C28 PHCC28C35	

Inter-Office Shipment

IOS Number : 77441

Date/Time:	02.01.2021	Created by:	Cloe Clifton
Lab# From:	**Carlsbad**	Delivery Priority:	
Lab# To:	**Midland**	Air Bill No.:	

Please send report to:	Jessica Kramer
Address:	1089 N Canal Street
E-Mail:	jessica.kramer@eurofinset.com

Inter Office Shipment or Sample Comments:

Relinquished By: Cloe Clifton

Date Relinquished: 02.01.2021

Received By: Jessica Kramer

Date Received: 02.02.2021

Cooler Temperature: 3.0

Environment Testing Xenco

Eurofins Xenco, LLC

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 77441

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used :

Sent By: Cloe Clifton **Date Sent:** 02.01.2021 03.49 PM

Received By: Jessica Kramer **Date Received:** 02.02.2021 12.09 PM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	3	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Jessica Kramer Date: 02.02.2021

Jessica Kramer

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 01.29.2021 03.34.00 PM

Work Order #: 686653

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	6.2	
#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?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#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**	Samples received in bulk containers.
#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)?	**Yes**	TPH sent to Midland.
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 01.29.2021

Checklist reviewed by: Jessica Kramer Date: 02.05.2021

Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 689702

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Marathon Kile To Willow State Line

Project Id: 13714
Contact: Joel Lowry
Project Location: Rural Eddy Co., NM

Date Received in Lab: Mon 03.01.2021 11:10
Report Date: 03.05.2021 12:05
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	689702-001		689702-002			
	Field Id:	SP 3 @ 13'		SP 5 @ 6'			
	Depth:	13- ft		6- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	02.25.2021 00:00		02.25.2021 00:00			
BTEX by EPA 8021B	***Extracted:***	03.02.2021 10:30		03.02.2021 10:30			
	Analyzed:	03.02.2021 14:38		03.02.2021 14:58			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		<0.00200	0.00200	<0.00198	0.00198		
Toluene		<0.00200	0.00200	<0.00198	0.00198		
Ethylbenzene		<0.00200	0.00200	<0.00198	0.00198		
m,p-Xylenes		<0.00399	0.00399	<0.00396	0.00396		
o-Xylene		<0.00200	0.00200	<0.00198	0.00198		
Total Xylenes		<0.00200	0.00200	<0.00198	0.00198		
Total BTEX		<0.00200	0.00200	<0.00198	0.00198		
Inorganic Anions by EPA 300	***Extracted:***	03.02.2021 09:15		03.02.2021 09:15			
	Analyzed:	03.02.2021 14:02		03.02.2021 14:08			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		255	49.5	114	50.5		
TPH by SW8015 Mod	***Extracted:***	** ** ** **		** ** ** **			
	Analyzed:	03.01.2021 19:04		03.01.2021 19:25			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9		
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9		
Total TPH		<50.0	50.0	<49.9	49.9		

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

eurofins | Environment Testing Xenco

Analytical Report 689702

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry

Marathon Kile To Willow State Line

13714

03.05.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins | Environment Testing Xenco

03.05.2021

Project Manager: **Joel Lowry**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **689702**
Marathon Kile To Willow State Line
Project Address: Rural Eddy Co., NM

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 Eurofins Xenco, LLC Report Number(s) 689702. 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 Eurofins Xenco, LLC. 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. 689702 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 Eurofins Xenco, LLC 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 Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

eurofins | Environment Testing Xenco

Sample Cross Reference 689702

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kile To Willow State Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP 3 @ 13'	S	02.25.2021 00:00	13 ft	689702-001
SP 5 @ 6'	S	02.25.2021 00:00	6 ft	689702-002

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Marathon Kile To Willow State Line

Project ID: *13714*
Work Order Number(s): *689702*

Report Date: *03.05.2021*
Date Received: *03.01.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3152217 TPH by SW8015 Mod

Surrogate 1-Chlorooctane recovered below QC limits Data confirmed by re-analysis. Samples affected are: 7722322-1-BLK,689702-002,689702-001.

eurofins | Environment Testing Xenco

Certificate of Analytical Results 689702

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kile To Willow State Line

Sample Id:	**SP 3 @ 13'**	Matrix:	Soil	Date Received:	03.01.2021 11:10
Lab Sample Id:	689702-001	Date Collected:	02.25.2021 00:00	Sample Depth:	13 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.02.2021 09:15	% Moisture:	
Seq Number:	3152238			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**255**	49.5	mg/kg	03.02.2021 14:02		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.01.2021 11:00	% Moisture:	
Seq Number:	3152217			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.01.2021 19:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.01.2021 19:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.01.2021 19:04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.01.2021 19:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	66	%	70-130	03.01.2021 19:04	**
o-Terphenyl	84-15-1	92	%	70-130	03.01.2021 19:04	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 689702

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kile To Willow State Line

Sample Id:	**SP 3 @ 13'**	Matrix:	Soil	Date Received:	03.01.2021 11:10
Lab Sample Id:	689702-001	Date Collected:	02.25.2021 00:00	Sample Depth:	13 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.02.2021 10:30	% Moisture:	
Seq Number:	3152315			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.02.2021 14:38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.02.2021 14:38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.02.2021 14:38	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.02.2021 14:38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.02.2021 14:38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.02.2021 14:38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.02.2021 14:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	03.02.2021 14:38	
1,4-Difluorobenzene	540-36-3	93	%	70-130	03.02.2021 14:38	

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Certificate of Analytical Results 689702

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kile To Willow State Line

Sample Id:	**SP 5 @ 6'**	Matrix:	Soil	Date Received:	03.01.2021 11:10
Lab Sample Id:	689702-002	Date Collected:	02.25.2021 00:00	Sample Depth:	6 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.02.2021 09:15	% Moisture:	
Seq Number:	3152238			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**114**	50.5	mg/kg	03.02.2021 14:08		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.01.2021 11:00	% Moisture:	
Seq Number:	3152217			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.01.2021 19:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.01.2021 19:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.01.2021 19:25	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.01.2021 19:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	63	%	70-130	03.01.2021 19:25	**
o-Terphenyl	84-15-1	86	%	70-130	03.01.2021 19:25	

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Certificate of Analytical Results 689702

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kile To Willow State Line

Sample Id:	**SP 5 @ 6'**	Matrix:	Soil	Date Received:	03.01.2021 11:10
Lab Sample Id:	689702-002	Date Collected:	02.25.2021 00:00	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.02.2021 10:30	% Moisture:	
Seq Number:	3152315			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.02.2021 14:58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.02.2021 14:58	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.02.2021 14:58	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	03.02.2021 14:58	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.02.2021 14:58	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.02.2021 14:58	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.02.2021 14:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	03.02.2021 14:58	
4-Bromofluorobenzene	460-00-4	99	%	70-130	03.02.2021 14:58	

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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.

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. **ND** Not Detected.

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

QC Summary 689702

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Etech Environmental & Safety Solution, Inc

Marathon Kile To Willow State Line

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3152238 — Matrix: Solid — Date Prep: 03.02.2021
MB Sample Id: 7722290-1-BLK — LCS Sample Id: 7722290-1-BKS — LCSD Sample Id: 7722290-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	233	93	233	93	90-110	0	20	mg/kg	03.02.2021 10:45	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3152238 — Matrix: Soil — Date Prep: 03.02.2021
Parent Sample Id: 689670-004 — MS Sample Id: 689670-004 S — MSD Sample Id: 689670-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1240	250	1370	52	1370	52	90-110	0	20	mg/kg	03.02.2021 13:12	X

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3152238 — Matrix: Soil — Date Prep: 03.02.2021
Parent Sample Id: 689675-001 — MS Sample Id: 689675-001 S — MSD Sample Id: 689675-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.10	251	244	94	245	94	90-110	0	20	mg/kg	03.02.2021 11:45	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3152217 — Matrix: Solid — Date Prep: 03.01.2021
MB Sample Id: 7722322-1-BLK — LCS Sample Id: 7722322-1-BKS — LCSD Sample Id: 7722322-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	808	81	916	92	70-130	13	20	mg/kg	03.01.2021 11:09	
Diesel Range Organics (DRO)	<50.0	1000	810	81	831	83	70-130	3	20	mg/kg	03.01.2021 11:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	67	**	71		83		70-130	%	03.01.2021 11:09
o-Terphenyl	92		88		98		70-130	%	03.01.2021 11:09

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3152217 — Matrix: Solid — Date Prep: 03.01.2021
MB Sample Id: 7722322-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.01.2021 10:48	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 689702

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Marathon Kile To Willow State Line

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3152217 Matrix: Soil Date Prep: 03.01.2021
Parent Sample Id: 689545-001 MS Sample Id: 689545-001 S MSD Sample Id: 689545-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	972	98	929	93	70-130	5	20	mg/kg	03.01.2021 12:11	
Diesel Range Organics (DRO)	<49.8	996	814	82	789	79	70-130	3	20	mg/kg	03.01.2021 12:11	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	78		77		70-130	%	03.01.2021 12:11
o-Terphenyl	90		85		70-130	%	03.01.2021 12:11

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3152315 Matrix: Solid Date Prep: 03.02.2021
MB Sample Id: 7722315-1-BLK LCS Sample Id: 7722315-1-BKS LCSD Sample Id: 7722315-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0754	75	0.0776	78	70-130	3	35	mg/kg	03.02.2021 11:55	
Toluene	<0.00200	0.100	0.0756	76	0.0781	78	70-130	3	35	mg/kg	03.02.2021 11:55	
Ethylbenzene	<0.00200	0.100	0.0859	86	0.0885	89	70-130	3	35	mg/kg	03.02.2021 11:55	
m,p-Xylenes	<0.00400	0.200	0.172	86	0.181	91	70-130	5	35	mg/kg	03.02.2021 11:55	
o-Xylene	<0.00200	0.100	0.0879	88	0.0917	92	70-130	4	35	mg/kg	03.02.2021 11:55	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		96		97		70-130	%	03.02.2021 11:55
4-Bromofluorobenzene	96		102		102		70-130	%	03.02.2021 11:55

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3152315 Matrix: Soil Date Prep: 03.02.2021
Parent Sample Id: 689702-001 MS Sample Id: 689702-001 S MSD Sample Id: 689702-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0705	71	0.0766	77	70-130	8	35	mg/kg	03.02.2021 12:58	
Toluene	<0.00199	0.0996	0.0702	70	0.0766	77	70-130	9	35	mg/kg	03.02.2021 12:58	
Ethylbenzene	<0.00199	0.0996	0.0805	81	0.0856	86	70-130	6	35	mg/kg	03.02.2021 12:58	
m,p-Xylenes	<0.00398	0.199	0.164	82	0.174	87	70-130	6	35	mg/kg	03.02.2021 12:58	
o-Xylene	<0.00199	0.0996	0.0827	83	0.0882	88	70-130	6	35	mg/kg	03.02.2021 12:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		98		70-130	%	03.02.2021 12:58
4-Bromofluorobenzene	103		101		70-130	%	03.02.2021 12:58

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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 Spike
B = Spike Added
D = MSD/LCSD % Rec

Page 535 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 689693 MM
689702

www.xenco.com Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris Water Midstream C/O Rob Kirk
Company Name:	Etech Environmental and Safety	Company Name:	
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378 Email:	Email Results to: PM@etechenv.com + Client	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kile to Willow State Line	Turn Around	
Project Number:	13714	Routine:	☒
Project Location	Rural Eddy Co., NM	Rush:	☐
Sampler's Name:	Travis Hacker	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temperature (°C):	2.4 / 2.9	Temp Blank: Yes No	Wet Ice: Yes No	
Received Intact:	Yes No	Thermometer ID	IR8	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	.5	
Sample Custody Seals:	Yes No N/A	Total Containers:		

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (8021)	TPH (Modified Ext.)	Cl- (E300)	Sample Comments
SP 3 @ 13'	Soil	2/25/2021		13'	1/NO	X	X	X	
SP 5 @ 6'	Soil	2/25/2021		6'	1/NO	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Travis Hacker	Erpa Carrillo	2:44 2-25-21	2 Erpa Carrillo		3/1/21 1110
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM
Final 1.000
Page 13 of 15

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 03.01.2021 11.10.00 AM

Work Order #: 689702

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.9
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ 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 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 to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 03.01.2021

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 03.02.2021

Jessica Kramer

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-853-1
Laboratory Sample Delivery Group: 13714
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

JKramer

Authorized for release by:
6/30/2021 10:51:10 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Laboratory Job ID: 890-853-1
SDG: 13714

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 11
QC Sample Results 12
QC Association Summary 16
Lab Chronicle 19
Certification Summary 22
Method Summary 23
Sample Summary 24
Chain of Custody 25
Receipt Checklists 26

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Job ID: 890-853-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-853-1

Receipt
The samples were received on 6/22/2021 2:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.2°C

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Client Sample ID: NSW #1

Lab Sample ID: 890-853-1
Matrix: Solid
Date Collected: 06/22/21 08:00
Date Received: 06/22/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 17:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 17:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 17:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/24/21 08:50	06/24/21 17:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 17:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/24/21 08:50	06/24/21 17:16	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		06/24/21 08:50	06/24/21 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*06/24/21 08:50*	*06/24/21 17:16*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*06/24/21 08:50*	*06/24/21 17:16*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 12:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 12:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 12:41	1
Total TPH	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*06/24/21 16:40*	*06/25/21 12:41*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/24/21 16:40*	*06/25/21 12:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**133**		5.03		mg/Kg			06/25/21 12:04	1

Client Sample ID: ESW #1

Lab Sample ID: 890-853-2
Matrix: Solid
Date Collected: 06/22/21 08:00
Date Received: 06/22/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 17:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 17:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 17:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 17:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 17:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 17:36	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*06/24/21 08:50*	*06/24/21 17:36*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*06/24/21 08:50*	*06/24/21 17:36*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 14:31	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: ESW #1
Lab Sample ID: 890-853-2
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 14:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 14:31	1
Total TPH	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/24/21 16:40*	*06/25/21 14:31*	*1*
o-Terphenyl	*95*		*70 - 130*	*06/24/21 16:40*	*06/25/21 14:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.8**		5.02		mg/Kg			06/25/21 12:10	1

Client Sample ID: SSW #1
Lab Sample ID: 890-853-3
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/24/21 08:50	06/24/21 17:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/24/21 08:50	06/24/21 17:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/24/21 08:50	06/24/21 17:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/24/21 08:50	06/24/21 17:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/24/21 08:50	06/24/21 17:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/24/21 08:50	06/24/21 17:56	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		06/24/21 08:50	06/24/21 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*06/24/21 08:50*	*06/24/21 17:56*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/24/21 08:50*	*06/24/21 17:56*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 14:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 14:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 14:52	1
Total TPH	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/24/21 16:40*	*06/25/21 14:52*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/24/21 16:40*	*06/25/21 14:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.2**		5.00		mg/Kg			06/25/21 12:15	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Client Sample ID: FL #1

Lab Sample ID: 890-853-4
Matrix: Solid
Date Collected: 06/22/21 08:00
Date Received: 06/22/21 14:55
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/24/21 08:50	06/24/21 18:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/24/21 08:50	06/24/21 18:17	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		06/24/21 08:50	06/24/21 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/24/21 08:50*	*06/24/21 18:17*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/24/21 08:50*	*06/24/21 18:17*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:13	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:13	1
Total TPH	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/24/21 16:40*	*06/25/21 15:13*	*1*
o-Terphenyl	*96*		*70 - 130*	*06/24/21 16:40*	*06/25/21 15:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.4**		4.98		mg/Kg			06/25/21 12:21	1

Client Sample ID: FL #2

Lab Sample ID: 890-853-5
Matrix: Solid
Date Collected: 06/22/21 08:00
Date Received: 06/22/21 14:55
Sample Depth: - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/24/21 08:50	06/24/21 18:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/24/21 08:50	06/24/21 18:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/24/21 08:50	06/24/21 18:37	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		06/24/21 08:50	06/24/21 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/24/21 08:50*	*06/24/21 18:37*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/24/21 08:50*	*06/24/21 18:37*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #2
Lab Sample ID: 890-853-5
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55
Sample Depth: - 6

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:34	1
Total TPH	<49.8	U	49.8		mg/Kg		06/24/21 16:40	06/25/21 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/24/21 16:40*	*06/25/21 15:34*	*1*
o-Terphenyl	*97*		*70 - 130*	*06/24/21 16:40*	*06/25/21 15:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.3**		4.95		mg/Kg			06/25/21 12:26	1

Client Sample ID: FL #3
Lab Sample ID: 890-853-6
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55
Sample Depth: - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 18:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 18:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 18:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 18:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 18:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 18:58	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/24/21 08:50*	*06/24/21 18:58*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/24/21 08:50*	*06/24/21 18:58*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 15:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 15:56	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 15:56	1
Total TPH	<49.7	U	49.7		mg/Kg		06/24/21 16:40	06/25/21 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*06/24/21 16:40*	*06/25/21 15:56*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/24/21 16:40*	*06/25/21 15:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.4**		5.01		mg/Kg			06/25/21 12:43	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #4
Lab Sample ID: 890-853-7
Date Collected: 06/22/21 12:00
Matrix: Solid
Date Received: 06/22/21 14:55
Sample Depth: - 7

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 19:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 19:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 19:18	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 19:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/24/21 08:50	06/24/21 19:18	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 19:18	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		06/24/21 08:50	06/24/21 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/24/21 08:50*	*06/24/21 19:18*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/24/21 08:50*	*06/24/21 19:18*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:16	1
Total TPH	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/24/21 16:40*	*06/25/21 16:16*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/24/21 16:40*	*06/25/21 16:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**205**		5.04		mg/Kg			06/25/21 12:48	1

Client Sample ID: FL #5
Lab Sample ID: 890-853-8
Date Collected: 06/22/21 12:00
Matrix: Solid
Date Received: 06/22/21 14:55
Sample Depth: - 7

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/24/21 08:50	06/24/21 19:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/24/21 08:50	06/24/21 19:38	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		06/24/21 08:50	06/24/21 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*06/24/21 08:50*	*06/24/21 19:38*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/24/21 08:50*	*06/24/21 19:38*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #5
Lab Sample ID: 890-853-8
Date Collected: 06/22/21 12:00
Matrix: Solid
Date Received: 06/22/21 14:55
Sample Depth: - 7

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:38	1
Total TPH	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*06/24/21 16:40*	*06/25/21 16:38*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/24/21 16:40*	*06/25/21 16:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.5**		4.95		mg/Kg			06/24/21 18:29	1

Client Sample ID: FL #6
Lab Sample ID: 890-853-9
Date Collected: 06/22/21 12:00
Matrix: Solid
Date Received: 06/22/21 14:55
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/24/21 08:50	06/24/21 19:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 19:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/24/21 08:50	06/24/21 19:59	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		06/24/21 08:50	06/24/21 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/24/21 08:50*	*06/24/21 19:59*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/24/21 08:50*	*06/24/21 19:59*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 17:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 17:20	1
Total TPH	<49.9	U	49.9		mg/Kg		06/24/21 16:40	06/25/21 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/24/21 16:40*	*06/25/21 17:20*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/24/21 16:40*	*06/25/21 17:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**169**		5.00		mg/Kg			06/25/21 11:39	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-853-1	NSW #1	125	106
890-853-2	ESW #1	115	108
890-853-3	SSW #1	123	103
890-853-4	FL #1	118	101
890-853-5	FL #2	120	100
890-853-6	FL #3	106	103
890-853-7	FL #4	122	96
890-853-8	FL #5	125	95
890-853-9	FL #6	117	94
LCS 880-4552/1-A	Lab Control Sample	119	109
LCSD 880-4552/2-A	Lab Control Sample Dup	110	107
MB 880-4552/5-A	Method Blank	114	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-853-1	NSW #1	99	109
890-853-1 MS	NSW #1	84	82
890-853-1 MSD	NSW #1	88	86
890-853-2	ESW #1	88	95
890-853-3	SSW #1	90	98
890-853-4	FL #1	88	96
890-853-5	FL #2	90	97
890-853-6	FL #3	91	100
890-853-7	FL #4	95	106
890-853-8	FL #5	92	101
890-853-9	FL #6	96	106
LCS 880-4602/2-A	Lab Control Sample	96	100
LCSD 880-4602/3-A	Lab Control Sample Dup	99	104
MB 880-4602/1-A	Method Blank	98	109

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4552/5-A
Matrix: Solid
Analysis Batch: 4554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 12:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 12:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 12:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/24/21 08:50	06/24/21 12:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/21 08:50	06/24/21 12:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/24/21 08:50	06/24/21 12:30	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/24/21 08:50	06/24/21 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/24/21 08:50*	*06/24/21 12:30*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/24/21 08:50*	*06/24/21 12:30*	*1*

Lab Sample ID: LCS 880-4552/1-A
Matrix: Solid
Analysis Batch: 4554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4552

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1072		mg/Kg		107	70 - 130		
Toluene			0.100	0.1007		mg/Kg		101	70 - 130		
Ethylbenzene			0.100	0.1036		mg/Kg		104	70 - 130		
m-Xylene & p-Xylene			0.200	0.2260		mg/Kg		113	70 - 130		
o-Xylene			0.100	0.1156		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-4552/2-A
Matrix: Solid
Analysis Batch: 4554

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4552

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1070		mg/Kg		107	70 - 130	0	35
Toluene			0.100	0.1007		mg/Kg		101	70 - 130	0	35
Ethylbenzene			0.100	0.1038		mg/Kg		104	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2272		mg/Kg		114	70 - 130	1	35
o-Xylene			0.100	0.1146		mg/Kg		115	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-4602/1-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 11:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 11:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 11:38	1
Total TPH	<50.0	U	50.0		mg/Kg		06/24/21 16:40	06/25/21 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*06/24/21 16:40*	*06/25/21 11:38*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/24/21 16:40*	*06/25/21 11:38*	*1*

Lab Sample ID: LCS 880-4602/2-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4602

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	894.5		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1034		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: LCSD 880-4602/3-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4602

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	997.5		mg/Kg		100	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1055		mg/Kg		105	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: 890-853-1 MS
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: NSW #1
Prep Type: Total/NA
Prep Batch: 4602

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	999	914.9		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U	999	899.4		mg/Kg		90	70 - 130		

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-853-1 MS
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: NSW #1
Prep Type: Total/NA
Prep Batch: 4602

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: 890-853-1 MSD
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: NSW #1
Prep Type: Total/NA
Prep Batch: 4602

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	997	991.9		mg/Kg		99	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.7	U	997	941.5		mg/Kg		94	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4512/1-A
Matrix: Solid
Analysis Batch: 4595

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/24/21 15:56	1

Lab Sample ID: LCS 880-4512/2-A
Matrix: Solid
Analysis Batch: 4595

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	249.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-4512/3-A
Matrix: Solid
Analysis Batch: 4595

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	249.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-4514/1-A
Matrix: Solid
Analysis Batch: 4598

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/24/21 20:59	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4514/2-A
Matrix: Solid
Analysis Batch: 4598

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	250.5		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-4514/3-A
Matrix: Solid
Analysis Batch: 4598

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	248.2		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-853-A-5-B MS
Matrix: Solid
Analysis Batch: 4598

Client Sample ID: 890-853-A-5-B MS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	27.37		248	281.4		mg/Kg		103	90 - 110		

Lab Sample ID: 890-853-A-5-C MSD
Matrix: Solid
Analysis Batch: 4598

Client Sample ID: 890-853-A-5-C MSD
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	27.37		248	276.5		mg/Kg		101	90 - 110	2	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

GC VOA

Prep Batch: 4552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-1	NSW #1	Total/NA	Solid	5035	
890-853-2	ESW #1	Total/NA	Solid	5035	
890-853-3	SSW #1	Total/NA	Solid	5035	
890-853-4	FL #1	Total/NA	Solid	5035	
890-853-5	FL #2	Total/NA	Solid	5035	
890-853-6	FL #3	Total/NA	Solid	5035	
890-853-7	FL #4	Total/NA	Solid	5035	
890-853-8	FL #5	Total/NA	Solid	5035	
890-853-9	FL #6	Total/NA	Solid	5035	
MB 880-4552/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4552/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4552/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 4554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-1	NSW #1	Total/NA	Solid	8021B	4552
890-853-2	ESW #1	Total/NA	Solid	8021B	4552
890-853-3	SSW #1	Total/NA	Solid	8021B	4552
890-853-4	FL #1	Total/NA	Solid	8021B	4552
890-853-5	FL #2	Total/NA	Solid	8021B	4552
890-853-6	FL #3	Total/NA	Solid	8021B	4552
890-853-7	FL #4	Total/NA	Solid	8021B	4552
890-853-8	FL #5	Total/NA	Solid	8021B	4552
890-853-9	FL #6	Total/NA	Solid	8021B	4552
MB 880-4552/5-A	Method Blank	Total/NA	Solid	8021B	4552
LCS 880-4552/1-A	Lab Control Sample	Total/NA	Solid	8021B	4552
LCSD 880-4552/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4552

GC Semi VOA

Prep Batch: 4602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-1	NSW #1	Total/NA	Solid	8015NM Prep	
890-853-2	ESW #1	Total/NA	Solid	8015NM Prep	
890-853-3	SSW #1	Total/NA	Solid	8015NM Prep	
890-853-4	FL #1	Total/NA	Solid	8015NM Prep	
890-853-5	FL #2	Total/NA	Solid	8015NM Prep	
890-853-6	FL #3	Total/NA	Solid	8015NM Prep	
890-853-7	FL #4	Total/NA	Solid	8015NM Prep	
890-853-8	FL #5	Total/NA	Solid	8015NM Prep	
890-853-9	FL #6	Total/NA	Solid	8015NM Prep	
MB 880-4602/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4602/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4602/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-853-1 MS	NSW #1	Total/NA	Solid	8015NM Prep	
890-853-1 MSD	NSW #1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-1	NSW #1	Total/NA	Solid	8015B NM	4602
890-853-2	ESW #1	Total/NA	Solid	8015B NM	4602

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

GC Semi VOA (Continued)

Analysis Batch: 4609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-3	SSW #1	Total/NA	Solid	8015B NM	4602
890-853-4	FL #1	Total/NA	Solid	8015B NM	4602
890-853-5	FL #2	Total/NA	Solid	8015B NM	4602
890-853-6	FL #3	Total/NA	Solid	8015B NM	4602
890-853-7	FL #4	Total/NA	Solid	8015B NM	4602
890-853-8	FL #5	Total/NA	Solid	8015B NM	4602
890-853-9	FL #6	Total/NA	Solid	8015B NM	4602
MB 880-4602/1-A	Method Blank	Total/NA	Solid	8015B NM	4602
LCS 880-4602/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4602
LCSD 880-4602/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4602
890-853-1 MS	NSW #1	Total/NA	Solid	8015B NM	4602
890-853-1 MSD	NSW #1	Total/NA	Solid	8015B NM	4602

HPLC/IC

Leach Batch: 4512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-8	FL #5	Soluble	Solid	DI Leach	
890-853-9	FL #6	Soluble	Solid	DI Leach	
MB 880-4512/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4512/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4512/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 4514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-1	NSW #1	Soluble	Solid	DI Leach	
890-853-2	ESW #1	Soluble	Solid	DI Leach	
890-853-3	SSW #1	Soluble	Solid	DI Leach	
890-853-4	FL #1	Soluble	Solid	DI Leach	
890-853-5	FL #2	Soluble	Solid	DI Leach	
890-853-6	FL #3	Soluble	Solid	DI Leach	
890-853-7	FL #4	Soluble	Solid	DI Leach	
MB 880-4514/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4514/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4514/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-853-A-5-B MS	890-853-A-5-B MS	Soluble	Solid	DI Leach	
890-853-A-5-C MSD	890-853-A-5-C MSD	Soluble	Solid	DI Leach	

Analysis Batch: 4595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-8	FL #5	Soluble	Solid	300.0	4512
890-853-9	FL #6	Soluble	Solid	300.0	4512
MB 880-4512/1-A	Method Blank	Soluble	Solid	300.0	4512
LCS 880-4512/2-A	Lab Control Sample	Soluble	Solid	300.0	4512
LCSD 880-4512/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4512

Analysis Batch: 4598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-1	NSW #1	Soluble	Solid	300.0	4514
890-853-2	ESW #1	Soluble	Solid	300.0	4514
890-853-3	SSW #1	Soluble	Solid	300.0	4514

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

HPLC/IC (Continued)

Analysis Batch: 4598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-853-4	FL #1	Soluble	Solid	300.0	4514
890-853-5	FL #2	Soluble	Solid	300.0	4514
890-853-6	FL #3	Soluble	Solid	300.0	4514
890-853-7	FL #4	Soluble	Solid	300.0	4514
MB 880-4514/1-A	Method Blank	Soluble	Solid	300.0	4514
LCS 880-4514/2-A	Lab Control Sample	Soluble	Solid	300.0	4514
LCSD 880-4514/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4514
890-853-A-5-B MS	890-853-A-5-B MS	Soluble	Solid	300.0	4514
890-853-A-5-C MSD	890-853-A-5-C MSD	Soluble	Solid	300.0	4514

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: NSW #1
Lab Sample ID: 890-853-1
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 17:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 12:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	4514	06/23/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			4598	06/25/21 12:04	CH	XEN MID

Client Sample ID: ESW #1
Lab Sample ID: 890-853-2
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 17:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 14:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	4514	06/23/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			4598	06/25/21 12:10	CH	XEN MID

Client Sample ID: SSW #1
Lab Sample ID: 890-853-3
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 17:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 14:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	4514	06/23/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			4598	06/25/21 12:15	CH	XEN MID

Client Sample ID: FL #1
Lab Sample ID: 890-853-4
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 18:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 15:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	4514	06/23/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			4598	06/25/21 12:21	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #2
Lab Sample ID: 890-853-5
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 18:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 15:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4514	06/23/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			4598	06/25/21 12:26	CH	XEN MID

Client Sample ID: FL #3
Lab Sample ID: 890-853-6
Date Collected: 06/22/21 08:00
Matrix: Solid
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 18:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 15:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	4514	06/23/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			4598	06/25/21 12:43	CH	XEN MID

Client Sample ID: FL #4
Lab Sample ID: 890-853-7
Date Collected: 06/22/21 12:00
Matrix: Solid
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 19:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 16:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	4514	06/23/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			4598	06/25/21 12:48	CH	XEN MID

Client Sample ID: FL #5
Lab Sample ID: 890-853-8
Date Collected: 06/22/21 12:00
Matrix: Solid
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 19:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 16:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4512	06/23/21 12:35	CH	XEN MID
Soluble	Analysis	300.0		1			4595	06/24/21 18:29	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #6
Lab Sample ID: 890-853-9

Date Collected: 06/22/21 12:00
Matrix: Solid
Date Received: 06/22/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4552	06/24/21 08:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4554	06/24/21 19:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/25/21 17:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	4512	06/23/21 12:35	CH	XEN MID
Soluble	Analysis	300.0		1			4595	06/25/21 11:39	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-853-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
SDG: 13714

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-853-1	NSW #1	Solid	06/22/21 08:00	06/22/21 14:55	
890-853-2	ESW #1	Solid	06/22/21 08:00	06/22/21 14:55	
890-853-3	SSW #1	Solid	06/22/21 08:00	06/22/21 14:55	
890-853-4	FL #1	Solid	06/22/21 08:00	06/22/21 14:55	
890-853-5	FL #2	Solid	06/22/21 08:00	06/22/21 14:55	
890-853-6	FL #3	Solid	06/22/21 08:00	06/22/21 14:55	
890-853-7	FL #4	Solid	06/22/21 12:00	06/22/21 14:55	
890-853-8	FL #5	Solid	06/22/21 12:00	06/22/21 14:55	
890-853-9	FL #6	Solid	06/22/21 12:00	06/22/21 14:55	

Page 562 of 812

Chain of Custody

XENCO LABORATORIES

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-8701
Atlanta, GA (770) 449-8800

Work Order No: 853

469-928-5626

www.xenco.com Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level I ☐ Level II ☐ PST/US ☐ TRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Leonel Mojica	Due Date:	
PO #:			

SAMPLE RECEIPT					
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)		
Temperature (°C):	14.4/14.2	Thermometer ID			
Received Intact:	Yes No	T-NM-007			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2		
Sample Custody Seals:	Yes No N/A	Total Containers:			

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

890-853 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
NSW #1	Soil	6/22/21	8 AM		1	X	X	X		
ESW #1	Soil	6/22/21	8 AM		1	X	X	X		
SSW #1	Soil	6/22/21	8 AM		1	X	X	X		
FL #1 @ 4'	Soil	6/22/21	8 AM		1	X	X	X		
FL #2 @ 6'	Soil	6/22/21	8 AM		1	X	X	X		
FL #3 @ 6'	Soil	6/22/21	8 AM		1	X	X	X		
FL #4 @ 7'	Soil	6/22/21	12 PM		1	X	X	X		
FL #5 @ 7'	Soil	6/22/21	12 PM		1	X	X	X		
FL #6 @ 4'	Soil	6/22/21	12 PM		1	X	X	X		
[redacted]										

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
~~Circle Method(s) and Metal(s) to be analyzed~~ TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Leonel Mojica	N. Otero	4/22/21 / 2:53	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM
6/30/2021
Page 25 of 27

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-853-1
SDG Number: 13714

Login Number: 853
List Number: 1
Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-853-1
SDG Number: 13714

Login Number: 853
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 06/24/21 12:04 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-864-1
Laboratory Sample Delivery Group: 13714
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

JKramer

Authorized for release by:
6/30/2021 10:56:09 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
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Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Laboratory Job ID: 890-864-1
SDG: 13714

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 7
QC Sample Results 8
QC Association Summary 12
Lab Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Chain of Custody 18
Receipt Checklists 19

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-864-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Job ID: 890-864-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-864-1

Receipt
The samples were received on 6/23/2021 2:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 9.0°C

Receipt Exceptions
The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SSW 32 (890-864-1) and NSW #2 C (890-864-2).

GC VOA
Method 8021B: Internal standard responses were outside of acceptance limits for the following sample: NSW #2 C (890-864-2). The sample(s) shows evidence of matrix interference.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-4647 and analytical batch 880-4608 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Client Sample ID: SSW 32

Lab Sample ID: 890-864-1
Matrix: Solid
Date Collected: 06/23/21 12:28
Date Received: 06/23/21 14:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:21	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:21	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:21	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401		mg/Kg		06/25/21 15:19	06/26/21 15:21	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:21	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		06/25/21 15:19	06/26/21 15:21	1
Total BTEX	<0.00401	U F1	0.00401		mg/Kg		06/25/21 15:19	06/26/21 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/25/21 15:19*	*06/26/21 15:21*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/25/21 15:19*	*06/26/21 15:21*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/25/21 14:16	06/26/21 00:51	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/25/21 14:16	06/26/21 00:51	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/25/21 14:16	06/26/21 00:51	1
Total TPH	<49.7	U	49.7		mg/Kg		06/25/21 14:16	06/26/21 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*06/25/21 14:16*	*06/26/21 00:51*	*1*
o-Terphenyl	*111*		*70 - 130*	*06/25/21 14:16*	*06/26/21 00:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**592**		49.5		mg/Kg			06/29/21 06:20	10

Client Sample ID: NSW #2 C

Lab Sample ID: 890-864-2
Matrix: Solid
Date Collected: 06/23/21 12:30
Date Received: 06/23/21 14:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/25/21 15:19	06/26/21 15:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 15:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/25/21 15:19	06/26/21 15:46	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		06/25/21 15:19	06/26/21 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*06/25/21 15:19*	*06/26/21 15:46*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/25/21 15:19*	*06/26/21 15:46*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/26/21 01:12	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Client Sample ID: NSW #2 C

Date Collected: 06/23/21 12:30
Date Received: 06/23/21 14:54

Lab Sample ID: 890-864-2

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/26/21 01:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/26/21 01:12	1
Total TPH	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/26/21 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*06/25/21 14:16*	*06/26/21 01:12*	*1*
o-Terphenyl	*121*		*70 - 130*	*06/25/21 14:16*	*06/26/21 01:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82.9**		4.98		mg/Kg			06/29/21 09:14	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-864-1	SSW 32	95	90										
890-864-1 MS	SSW 32	79	104										
890-864-1 MSD	SSW 32	88	105										
890-864-2	NSW #2 C	79	89										
LCS 880-4647/1-A	Lab Control Sample	86	101										
LCSD 880-4647/2-A	Lab Control Sample Dup	83	102										
MB 880-4593/5-A	Method Blank	58 S1-	83										
MB 880-4647/5-A	Method Blank	56 S1-	84										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-864-1	SSW 32	100	111										
890-864-2	NSW #2 C	108	121										
LCS 880-4640/2-A	Lab Control Sample	103	100										
LCSD 880-4640/3-A	Lab Control Sample Dup	98	97										
MB 880-4640/1-A	Method Blank	101	113										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4593/5-A
Matrix: Solid
Analysis Batch: 4608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/24/21 13:24	06/26/21 01:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/24/21 13:24	06/26/21 01:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/24/21 13:24	06/26/21 01:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/24/21 13:24	06/26/21 01:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/24/21 13:24	06/26/21 01:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/24/21 13:24	06/26/21 01:41	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/24/21 13:24	06/26/21 01:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*58*	*S1-*	*70 - 130*	*06/24/21 13:24*	*06/26/21 01:41*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*06/24/21 13:24*	*06/26/21 01:41*	*1*

Lab Sample ID: MB 880-4647/5-A
Matrix: Solid
Analysis Batch: 4608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 14:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 14:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 14:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/25/21 15:19	06/26/21 14:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/25/21 15:19	06/26/21 14:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/25/21 15:19	06/26/21 14:55	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/25/21 15:19	06/26/21 14:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*56*	*S1-*	*70 - 130*	*06/25/21 15:19*	*06/26/21 14:55*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*06/25/21 15:19*	*06/26/21 14:55*	*1*

Lab Sample ID: LCS 880-4647/1-A
Matrix: Solid
Analysis Batch: 4608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08830		mg/Kg		88	70 - 130
Toluene	0.100	0.08240		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.07737		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1645		mg/Kg		82	70 - 130
o-Xylene	0.100	0.09031		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-4647/2-A
Matrix: Solid
Analysis Batch: 4608

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4647

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08880		mg/Kg		89	70 - 130	1	35
Toluene			0.100	0.08283		mg/Kg		83	70 - 130	1	35
Ethylbenzene			0.100	0.07670		mg/Kg		77	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1626		mg/Kg		81	70 - 130	1	35
o-Xylene			0.100	0.08401		mg/Kg		84	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-864-1 MS
Matrix: Solid
Analysis Batch: 4608

Client Sample ID: SSW 32
Prep Type: Total/NA
Prep Batch: 4647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U F1	0.0998	0.05368	F1	mg/Kg		54	70 - 130		
Toluene	<0.00200	U F1	0.0998	0.05152	F1	mg/Kg		52	70 - 130		
Ethylbenzene	<0.00200	U F1	0.0998	0.04983	F1	mg/Kg		50	70 - 130		
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.1055	F1	mg/Kg		53	70 - 130		
o-Xylene	<0.00200	U F1	0.0998	0.05650	F1	mg/Kg		57	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-864-1 MSD
Matrix: Solid
Analysis Batch: 4608

Client Sample ID: SSW 32
Prep Type: Total/NA
Prep Batch: 4647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0998	0.05777	F1	mg/Kg		58	70 - 130	7	35
Toluene	<0.00200	U F1	0.0998	0.06220	F1	mg/Kg		62	70 - 130	19	35
Ethylbenzene	<0.00200	U F1	0.0998	0.05311	F1	mg/Kg		53	70 - 130	6	35
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.1106	F1	mg/Kg		55	70 - 130	5	35
o-Xylene	<0.00200	U F1	0.0998	0.06017	F1	mg/Kg		60	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-4640/1-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/25/21 21:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/25/21 21:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/25/21 21:17	1
Total TPH	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/25/21 21:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/25/21 14:16*	*06/25/21 21:17*	*1*
o-Terphenyl	*113*		*70 - 130*	*06/25/21 14:16*	*06/25/21 21:17*	*1*

Lab Sample ID: LCS 880-4640/2-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4640

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	991.5		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1068		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: LCSD 880-4640/3-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4640

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	908.3		mg/Kg		91	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1034		mg/Kg		103	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4585/1-A
Matrix: Solid
Analysis Batch: 4717

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/29/21 05:23	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4585/2-A
Matrix: Solid
Analysis Batch: 4717

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	240.8		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-4585/3-A
Matrix: Solid
Analysis Batch: 4717

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	241.6		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

GC VOA

Prep Batch: 4593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4593/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 4608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-864-1	SSW 32	Total/NA	Solid	8021B	4647
890-864-2	NSW #2 C	Total/NA	Solid	8021B	4647
MB 880-4593/5-A	Method Blank	Total/NA	Solid	8021B	4593
MB 880-4647/5-A	Method Blank	Total/NA	Solid	8021B	4647
LCS 880-4647/1-A	Lab Control Sample	Total/NA	Solid	8021B	4647
LCSD 880-4647/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4647
890-864-1 MS	SSW 32	Total/NA	Solid	8021B	4647
890-864-1 MSD	SSW 32	Total/NA	Solid	8021B	4647

Prep Batch: 4647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-864-1	SSW 32	Total/NA	Solid	5035	
890-864-2	NSW #2 C	Total/NA	Solid	5035	
MB 880-4647/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4647/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4647/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-864-1 MS	SSW 32	Total/NA	Solid	5035	
890-864-1 MSD	SSW 32	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 4609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-864-1	SSW 32	Total/NA	Solid	8015B NM	4640
890-864-2	NSW #2 C	Total/NA	Solid	8015B NM	4640
MB 880-4640/1-A	Method Blank	Total/NA	Solid	8015B NM	4640
LCS 880-4640/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4640
LCSD 880-4640/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4640

Prep Batch: 4640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-864-1	SSW 32	Total/NA	Solid	8015NM Prep	
890-864-2	NSW #2 C	Total/NA	Solid	8015NM Prep	
MB 880-4640/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4640/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4640/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 4585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-864-1	SSW 32	Soluble	Solid	DI Leach	
890-864-2	NSW #2 C	Soluble	Solid	DI Leach	
MB 880-4585/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4585/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4585/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

HPLC/IC

Analysis Batch: 4717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-864-1	SSW 32	Soluble	Solid	300.0	4585
890-864-2	NSW #2 C	Soluble	Solid	300.0	4585
MB 880-4585/1-A	Method Blank	Soluble	Solid	300.0	4585
LCS 880-4585/2-A	Lab Control Sample	Soluble	Solid	300.0	4585
LCSD 880-4585/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4585

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-864-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: SSW 32
Lab Sample ID: 890-864-1

Date Collected: 06/23/21 12:28
Matrix: Solid
Date Received: 06/23/21 14:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	4647	06/25/21 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4608	06/26/21 15:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	4640	06/25/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/26/21 00:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4585	06/24/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		10			4717	06/29/21 06:20	CH	XEN MID

Client Sample ID: NSW #2 C
Lab Sample ID: 890-864-2

Date Collected: 06/23/21 12:30
Matrix: Solid
Date Received: 06/23/21 14:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4647	06/25/21 15:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4608	06/26/21 15:46	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4640	06/25/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/26/21 01:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	4585	06/24/21 12:16	CH	XEN MID
Soluble	Analysis	300.0		1			4717	06/29/21 09:14	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-864-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
SDG: 13714

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-864-1	SSW 32	Solid	06/23/21 12:28	06/23/21 14:54	
890-864-2	NSW #2 C	Solid	06/23/21 12:30	06/23/21 14:54	

Page 582 of 812

Chain of Custody

XENCO LABORATORIES

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/O Rob Kirk (469)928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☒
Project Location		Rush:	☐
Sampler's Name:	Leonel Mojica	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	9.2/9.0	Thermometer ID	
Received Intact:	(Yes) No	IR-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
SSW #2	Soil	6/23/21	12:28 PM		1	X	X	X	
NSW #2	Soil	6/23/21	12:30 PM		1	X	X	X	

890-864 Chain of Custody

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U~~ 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Leonel Mojica	Clue Cuzco	6/23/21 1454			
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-864-1
SDG Number: 13714

Login Number: 864
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-864-1
SDG Number: 13714

Login Number: 864
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 06/25/21 11:11 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	False	
COC is filled out in ink and legible.	False	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-870-1
Laboratory Sample Delivery Group: 13714
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

JKramer

Authorized for release by:
6/30/2021 8:38:12 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Laboratory Job ID: 890-870-1
SDG: 13714

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 7
QC Sample Results 8
QC Association Summary 11
Lab Chronicle 13
Certification Summary 14
Method Summary 15
Sample Summary 16
Chain of Custody 17
Receipt Checklists 19

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-870-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Job ID: 890-870-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-870-1

Receipt
The samples were received on 6/24/2021 3:19 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 15.0°C

Receipt Exceptions
The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FL #7 @ 20' (890-870-1), FL #8 @ 20' (890-870-2) and FL #9 @ 18' (890-870-3)

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Client Sample ID: FL #7 @ 20'

Lab Sample ID: 890-870-1
Matrix: Solid
Date Collected: 06/24/21 11:30
Date Received: 06/24/21 15:19
Sample Depth: - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/28/21 14:49	06/29/21 11:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/28/21 14:49	06/29/21 11:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/28/21 14:49	06/29/21 11:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/28/21 14:49	06/29/21 11:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/28/21 14:49	06/29/21 11:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/28/21 14:49	06/29/21 11:54	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		06/28/21 14:49	06/29/21 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/28/21 14:49*	*06/29/21 11:54*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/28/21 14:49*	*06/29/21 11:54*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/28/21 14:59	06/29/21 15:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/28/21 14:59	06/29/21 15:03	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/28/21 14:59	06/29/21 15:03	1
Total TPH	<49.8	U	49.8		mg/Kg		06/28/21 14:59	06/29/21 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/28/21 14:59*	*06/29/21 15:03*	*1*
o-Terphenyl	*97*		*70 - 130*	*06/28/21 14:59*	*06/29/21 15:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.0**		4.97		mg/Kg			06/30/21 14:48	1

Client Sample ID: FL #8 @ 20'

Lab Sample ID: 890-870-2
Matrix: Solid
Date Collected: 06/24/21 11:30
Date Received: 06/24/21 15:19
Sample Depth: - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/28/21 14:49	06/29/21 12:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/28/21 14:49	06/29/21 12:15	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		06/28/21 14:49	06/29/21 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/28/21 14:49*	*06/29/21 12:15*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/28/21 14:49*	*06/29/21 12:15*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Client Sample ID: FL #8 @ 20'

Lab Sample ID: 890-870-2
Matrix: Solid
Date Collected: 06/24/21 11:30
Date Received: 06/24/21 15:19
Sample Depth: - 20

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/21 13:55	06/29/21 01:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/21 13:55	06/29/21 01:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/21 13:55	06/29/21 01:39	1
Total TPH	<49.9	U	49.9		mg/Kg		06/28/21 13:55	06/29/21 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/28/21 13:55*	*06/29/21 01:39*	*1*
o-Terphenyl	*85*		*70 - 130*	*06/28/21 13:55*	*06/29/21 01:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**179**		5.01		mg/Kg			06/30/21 14:53	1

Client Sample ID: FL #9 @ 18'

Lab Sample ID: 890-870-3
Matrix: Solid
Date Collected: 06/24/21 11:30
Date Received: 06/24/21 15:19
Sample Depth: - 18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/28/21 14:49	06/29/21 12:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/28/21 14:49	06/29/21 12:35	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/28/21 14:49	06/29/21 12:35	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		06/28/21 14:49	06/29/21 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/28/21 14:49*	*06/29/21 12:35*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/28/21 14:49*	*06/29/21 12:35*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/28/21 13:55	06/29/21 02:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/28/21 13:55	06/29/21 02:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/28/21 13:55	06/29/21 02:00	1
Total TPH	<49.8	U	49.8		mg/Kg		06/28/21 13:55	06/29/21 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/28/21 13:55*	*06/29/21 02:00*	*1*
o-Terphenyl	*108*		*70 - 130*	*06/28/21 13:55*	*06/29/21 02:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**242**		5.04		mg/Kg			06/30/21 14:58	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-870-1	FL #7 @ 20'	108	95										
890-870-2	FL #8 @ 20'	119	94										
890-870-3	FL #9 @ 18'	108	95										
LCS 880-4708/1-A	Lab Control Sample	122	107										
LCSD 880-4708/2-A	Lab Control Sample Dup	122	108										
MB 880-4706/5-A	Method Blank	101	95										
MB 880-4708/5-A	Method Blank	102	92										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-870-1	FL #7 @ 20'	95	97										
890-870-2	FL #8 @ 20'	81	85										
890-870-3	FL #9 @ 18'	101	108										
LCS 880-4709/2-A	Lab Control Sample	100	97										
LCSD 880-4709/3-A	Lab Control Sample Dup	100	96										
MB 880-4709/1-A	Method Blank	93	100										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4706/5-A
Matrix: Solid
Analysis Batch: 4637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4706

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:42	06/28/21 17:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:42	06/28/21 17:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:42	06/28/21 17:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/28/21 14:42	06/28/21 17:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:42	06/28/21 17:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/28/21 14:42	06/28/21 17:54	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/28/21 14:42	06/28/21 17:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/28/21 14:42*	*06/28/21 17:54*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/28/21 14:42*	*06/28/21 17:54*	*1*

Lab Sample ID: MB 880-4708/5-A
Matrix: Solid
Analysis Batch: 4637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:49	06/29/21 04:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:49	06/29/21 04:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:49	06/29/21 04:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/28/21 14:49	06/29/21 04:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/21 14:49	06/29/21 04:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/28/21 14:49	06/29/21 04:44	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/28/21 14:49	06/29/21 04:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/28/21 14:49*	*06/29/21 04:44*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/28/21 14:49*	*06/29/21 04:44*	*1*

Lab Sample ID: LCS 880-4708/1-A
Matrix: Solid
Analysis Batch: 4637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1023		mg/Kg		102	70 - 130
Toluene	0.100	0.09737		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1001		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2164		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1122		mg/Kg		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-4708/2-A
Matrix: Solid
Analysis Batch: 4637

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4708

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1037		mg/Kg		104	70 - 130	1	35
Toluene			0.100	0.1022		mg/Kg		102	70 - 130	5	35
Ethylbenzene			0.100	0.1052		mg/Kg		105	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2299		mg/Kg		115	70 - 130	6	35
o-Xylene			0.100	0.1188		mg/Kg		119	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-4709/1-A
Matrix: Solid
Analysis Batch: 4725

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/21 14:59	06/29/21 12:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/21 14:59	06/29/21 12:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/21 14:59	06/29/21 12:16	1
Total TPH	<50.0	U	50.0		mg/Kg		06/28/21 14:59	06/29/21 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*06/28/21 14:59*	*06/29/21 12:16*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/28/21 14:59*	*06/29/21 12:16*	*1*

Lab Sample ID: LCS 880-4709/2-A
Matrix: Solid
Analysis Batch: 4725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4709

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	949.3		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	933.8		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: LCSD 880-4709/3-A
Matrix: Solid
Analysis Batch: 4725

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4709

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	935.9		mg/Kg		94	70 - 130	1	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-4709/3-A
Matrix: Solid
Analysis Batch: 4725

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4709

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)			1000	919.2		mg/Kg		92	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4701/1-A
Matrix: Solid
Analysis Batch: 4751

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/30/21 11:02	1

Lab Sample ID: LCS 880-4701/2-A
Matrix: Solid
Analysis Batch: 4751

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	237.3		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-4701/3-A
Matrix: Solid
Analysis Batch: 4751

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	237.6		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

GC VOA

Analysis Batch: 4637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-1	FL #7 @ 20'	Total/NA	Solid	8021B	4708
890-870-2	FL #8 @ 20'	Total/NA	Solid	8021B	4708
890-870-3	FL #9 @ 18'	Total/NA	Solid	8021B	4708
MB 880-4706/5-A	Method Blank	Total/NA	Solid	8021B	4706
MB 880-4708/5-A	Method Blank	Total/NA	Solid	8021B	4708
LCS 880-4708/1-A	Lab Control Sample	Total/NA	Solid	8021B	4708
LCSD 880-4708/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4708

Prep Batch: 4706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4706/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 4708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-1	FL #7 @ 20'	Total/NA	Solid	5035	
890-870-2	FL #8 @ 20'	Total/NA	Solid	5035	
890-870-3	FL #9 @ 18'	Total/NA	Solid	5035	
MB 880-4708/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4708/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4708/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 4696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-2	FL #8 @ 20'	Total/NA	Solid	8015B NM	4704
890-870-3	FL #9 @ 18'	Total/NA	Solid	8015B NM	4704

Prep Batch: 4704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-2	FL #8 @ 20'	Total/NA	Solid	8015NM Prep	
890-870-3	FL #9 @ 18'	Total/NA	Solid	8015NM Prep	

Prep Batch: 4709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-1	FL #7 @ 20'	Total/NA	Solid	8015NM Prep	
MB 880-4709/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4709/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4709/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-1	FL #7 @ 20'	Total/NA	Solid	8015B NM	4709
MB 880-4709/1-A	Method Blank	Total/NA	Solid	8015B NM	4709
LCS 880-4709/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4709
LCSD 880-4709/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4709

HPLC/IC

Leach Batch: 4701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-1	FL #7 @ 20'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

HPLC/IC (Continued)

Leach Batch: 4701 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-2	FL #8 @ 20'	Soluble	Solid	DI Leach	
890-870-3	FL #9 @ 18'	Soluble	Solid	DI Leach	
MB 880-4701/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4701/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4701/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 4751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-870-1	FL #7 @ 20'	Soluble	Solid	300.0	4701
890-870-2	FL #8 @ 20'	Soluble	Solid	300.0	4701
890-870-3	FL #9 @ 18'	Soluble	Solid	300.0	4701
MB 880-4701/1-A	Method Blank	Soluble	Solid	300.0	4701
LCS 880-4701/2-A	Lab Control Sample	Soluble	Solid	300.0	4701
LCSD 880-4701/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4701

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-870-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #7 @ 20'
Lab Sample ID: 890-870-1
Date Collected: 06/24/21 11:30
Matrix: Solid
Date Received: 06/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	4708	06/28/21 14:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4637	06/29/21 11:54	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	4709	06/28/21 14:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4725	06/29/21 15:03	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	4701	06/28/21 13:21	CH	XEN MID
Soluble	Analysis	300.0		1			4751	06/30/21 14:48	CH	XEN MID

Client Sample ID: FL #8 @ 20'
Lab Sample ID: 890-870-2
Date Collected: 06/24/21 11:30
Matrix: Solid
Date Received: 06/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4708	06/28/21 14:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4637	06/29/21 12:15	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4704	06/28/21 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4696	06/29/21 01:39	AM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	4701	06/28/21 13:21	CH	XEN MID
Soluble	Analysis	300.0		1			4751	06/30/21 14:53	CH	XEN MID

Client Sample ID: FL #9 @ 18'
Lab Sample ID: 890-870-3
Date Collected: 06/24/21 11:30
Matrix: Solid
Date Received: 06/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	4708	06/28/21 14:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4637	06/29/21 12:35	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	4704	06/28/21 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4696	06/29/21 02:00	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	4701	06/28/21 13:21	CH	XEN MID
Soluble	Analysis	300.0		1			4751	06/30/21 14:58	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-870-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
SDG: 13714

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-870-1	FL #7 @ 20'	Solid	06/24/21 11:30	06/24/21 15:19	- 20
890-870-2	FL #8 @ 20'	Solid	06/24/21 11:30	06/24/21 15:19	- 20
890-870-3	FL #9 @ 18'	Solid	06/24/21 11:30	06/24/21 15:19	- 18

Page 601 of 812

Chain of Custody

XENCO LABORATORIES
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/O Rob Kirk
Address:	3100 Plains Highway	Address:	(469) 928-5620
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	15.2/15.0	Thermometer ID	TPM007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
aOH: Na
aOH: Me
Acetate+ NaOH: Zn

TAT starts the day received by the lab, if received by 4:30pm

890-870 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
FL #7 @ 20'	Soil	6/24/21	11:30 AM		1	X	X	X		
FL #8 @ 20'	Soil	6/24/21	11:30 AM		1	X	X	X		
FL #9 @ 18'	Soil	6/24/21	11:30 AM		1	X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		6-24-21 1517	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM
6/30/2021
Page 17 of 20

Page 602 of 812

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-279 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-870-1
Address: 1211 W Florida Ave	Due Date Requested: 6/30/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Marathon Kyle to Willow	Project #: 88000073			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL M Hexane
B NaOH N None
C Zn Acetate O AsNaO2
D Nitric Acid P Na2O4S
E NaHSO4 Q Na2SO3
F MeOH R Na2S2O3
G Amchlor S H2SO4
H Ascorbic Acid T TSP Dodecahydrate
I Ice U Acetone
J DI Water V MCAA
K EDTA W pH 4-5
L EDA Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8021B/8035FP_Calc Mid - BTEX	8015MOD_NM/8015NM_S_Prep Full TPH	Total Number of containers	Special Instructions/Note
			Preservation Code:								
FL #7 @ 20' (890-870-1)	6/24/21	11 30 Mountain		Solid			X	X	X	1	
FL #8 @ 20' (890-870-2)	6/24/21	11 30 Mountain		Solid			X	X	X	1	
FL #9 @ 18' (890-870-3)	6/24/21	11 30 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company
Clae Cuts 6.25 21				6-28-21 9:00 am	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver 11/01/2020

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM
6/30/2021
Page 18 of 20

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-870-1
SDG Number: 13714

Login Number: 870
List Number: 1
Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-870-1
SDG Number: 13714

Login Number: 870
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 06/28/21 09:14 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-894-1
Laboratory Sample Delivery Group: 13714
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: Joel Lowry

Chad A. Bechtold

Authorized for release by:
7/12/2021 7:35:26 PM
Chad Bechtold, Project Manager
(813)690-3563
chad.bechtold@eurofinset.com

Designee for

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Laboratory Job ID: 890-894-1
SDG: 13714

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 20
QC Sample Results 22
QC Association Summary 30
Lab Chronicle 35
Certification Summary 41
Method Summary 42
Sample Summary 43
Chain of Custody 44
Receipt Checklists 47

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-894-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Job ID: 890-894-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-894-1

Receipt
The samples were received on 7/7/2021 11:37 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.4°C. The samples are considered acceptable since they were collected and received on the same day, and there is evidence that the cooling process had begun.

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: FL#16@10 (890-894-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: ESW#3@4'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Lab Sample ID: 890-894-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 21:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 21:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 21:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/08/21 09:34	07/08/21 21:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 21:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/08/21 09:34	07/08/21 21:48	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/08/21 09:34	07/08/21 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/08/21 09:34*	*07/08/21 21:48*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/08/21 09:34*	*07/08/21 21:48*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/08/21 10:14	07/08/21 13:51	1
Diesel Range Organics (Over C10-C28)	<49.7	U F1	49.7		mg/Kg		07/08/21 10:14	07/08/21 13:51	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/08/21 10:14	07/08/21 13:51	1
Total TPH	<49.7	U	49.7		mg/Kg		07/08/21 10:14	07/08/21 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/08/21 10:14*	*07/08/21 13:51*	*1*
o-Terphenyl	*115*		*70 - 130*	*07/08/21 10:14*	*07/08/21 13:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**127**		4.97		mg/Kg			07/08/21 17:17	1

Client Sample ID: NSW#4@4'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Lab Sample ID: 890-894-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:08	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/08/21 09:34	07/08/21 22:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:08	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/08/21 09:34	07/08/21 22:08	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/08/21 09:34	07/08/21 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/08/21 09:34*	*07/08/21 22:08*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/08/21 09:34*	*07/08/21 22:08*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: NSW#4@4'

Lab Sample ID: 890-894-2
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 14:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 14:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 14:54	1
Total TPH	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/08/21 10:14*	*07/08/21 14:54*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/08/21 10:14*	*07/08/21 14:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**254**		4.95		mg/Kg			07/08/21 17:22	1

Client Sample ID: ESW#2@3'

Lab Sample ID: 890-894-3
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:29	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/08/21 09:34	07/08/21 22:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:34	07/08/21 22:29	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/08/21 09:34	07/08/21 22:29	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/08/21 09:34	07/08/21 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/08/21 09:34*	*07/08/21 22:29*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/08/21 09:34*	*07/08/21 22:29*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 15:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 15:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 15:14	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*07/08/21 10:14*	*07/08/21 15:14*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/08/21 10:14*	*07/08/21 15:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**351**		5.00		mg/Kg			07/08/21 17:27	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#20@4'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Lab Sample ID: 890-894-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:34	07/08/21 22:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:34	07/08/21 22:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:34	07/08/21 22:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/08/21 09:34	07/08/21 22:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:34	07/08/21 22:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/08/21 09:34	07/08/21 22:49	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/08/21 09:34	07/08/21 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/08/21 09:34*	*07/08/21 22:49*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/08/21 09:34*	*07/08/21 22:49*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:35	1
Total TPH	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*07/08/21 10:14*	*07/08/21 15:35*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/08/21 10:14*	*07/08/21 15:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**249**		5.01		mg/Kg			07/08/21 17:32	1

Client Sample ID: SW#3@10'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 10

Lab Sample ID: 890-894-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		07/08/21 09:40	07/09/21 02:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 02:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 02:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 02:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 02:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 02:11	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/08/21 09:40*	*07/09/21 02:11*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/08/21 09:40*	*07/09/21 02:11*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: SW#3@10'

Lab Sample ID: 890-894-5
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 10

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:56	1
Total TPH	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*07/08/21 10:14*	*07/08/21 15:56*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/08/21 10:14*	*07/08/21 15:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		4.96		mg/Kg			07/09/21 11:38	1

Client Sample ID: NSW#3@4'

Lab Sample ID: 890-894-6
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/08/21 09:40	07/09/21 02:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/08/21 09:40	07/09/21 02:31	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/08/21 09:40	07/09/21 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/08/21 09:40*	*07/09/21 02:31*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/08/21 09:40*	*07/09/21 02:31*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/08/21 10:14	07/08/21 16:17	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/08/21 10:14	07/08/21 16:17	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/08/21 10:14	07/08/21 16:17	1
Total TPH	<49.7	U	49.7		mg/Kg		07/08/21 10:14	07/08/21 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*07/08/21 10:14*	*07/08/21 16:17*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*07/08/21 10:14*	*07/08/21 16:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.5**		4.98		mg/Kg			07/09/21 11:55	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: WSW#1@4'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Lab Sample ID: 890-894-7
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 02:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 02:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 02:52	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/08/21 09:40*	*07/09/21 02:52*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/08/21 09:40*	*07/09/21 02:52*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:38	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/08/21 10:14*	*07/08/21 16:38*	*1*
o-Terphenyl	*105*		*70 - 130*	*07/08/21 10:14*	*07/08/21 16:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		4.99		mg/Kg			07/09/21 12:00	1

Client Sample ID: WSW#2@4'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Lab Sample ID: 890-894-8
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 03:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 03:12	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/08/21 09:40*	*07/09/21 03:12*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/08/21 09:40*	*07/09/21 03:12*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: WSW#2@4'

Lab Sample ID: 890-894-8
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:59	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/08/21 10:14*	*07/08/21 16:59*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/08/21 10:14*	*07/08/21 16:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**151**		5.04		mg/Kg			07/09/21 12:06	1

Client Sample ID: WSW#3@4'

Lab Sample ID: 890-894-9
Matrix: Solid
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:40	07/09/21 03:32	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:40	07/09/21 03:32	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:40	07/09/21 03:32	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/08/21 09:40	07/09/21 03:32	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/08/21 09:40	07/09/21 03:32	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/08/21 09:40	07/09/21 03:32	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/08/21 09:40	07/09/21 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/08/21 09:40*	*07/09/21 03:32*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/08/21 09:40*	*07/09/21 03:32*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:20	1
Total TPH	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/08/21 10:14*	*07/08/21 17:20*	*1*
o-Terphenyl	*120*		*70 - 130*	*07/08/21 10:14*	*07/08/21 17:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.5**		5.05		mg/Kg			07/09/21 12:11	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#21@4

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Lab Sample ID: 890-894-10
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 03:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 03:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 03:53	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*275*	*S1+*	*70 - 130*	*07/08/21 09:40*	*07/09/21 03:53*	*1*
1,4-Difluorobenzene (Surr)	*260*	*S1+*	*70 - 130*	*07/08/21 09:40*	*07/09/21 03:53*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:41	1
Total TPH	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*07/08/21 10:14*	*07/08/21 17:41*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*07/08/21 10:14*	*07/08/21 17:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**797**		4.97		mg/Kg			07/09/21 12:28	1

Client Sample ID: FL#10@18'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 18

Lab Sample ID: 890-894-11
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:40	07/09/21 04:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:40	07/09/21 04:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:40	07/09/21 04:13	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/08/21 09:40	07/09/21 04:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/08/21 09:40	07/09/21 04:13	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/08/21 09:40	07/09/21 04:13	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/08/21 09:40	07/09/21 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/08/21 09:40*	*07/09/21 04:13*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/08/21 09:40*	*07/09/21 04:13*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#10@18'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 18

Lab Sample ID: 890-894-11

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:23	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/08/21 10:14*	*07/08/21 18:23*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/08/21 10:14*	*07/08/21 18:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.3**		4.98		mg/Kg			07/09/21 12:33	1

Client Sample ID: FL#11@18'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 18

Lab Sample ID: 890-894-12

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 04:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 04:34	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*07/08/21 09:40*	*07/09/21 04:34*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/08/21 09:40*	*07/09/21 04:34*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:44	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/08/21 10:14*	*07/08/21 18:44*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/08/21 10:14*	*07/08/21 18:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**126**		4.99		mg/Kg			07/09/21 12:39	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#12@19'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 19

Lab Sample ID: 890-894-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/08/21 09:40	07/09/21 04:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 04:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/08/21 09:40	07/09/21 04:54	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/08/21 09:40	07/09/21 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/08/21 09:40*	*07/09/21 04:54*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/08/21 09:40*	*07/09/21 04:54*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 19:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 19:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 19:05	1
Total TPH	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*07/08/21 10:14*	*07/08/21 19:05*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/08/21 10:14*	*07/08/21 19:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.9**		4.95		mg/Kg			07/09/21 12:44	1

Client Sample ID: FL#13@10'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 10

Lab Sample ID: 890-894-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 05:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 05:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 05:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 05:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:40	07/09/21 05:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 05:14	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/08/21 09:40	07/09/21 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/08/21 09:40*	*07/09/21 05:14*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/08/21 09:40*	*07/09/21 05:14*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#13@10'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 10

Lab Sample ID: 890-894-14
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:26	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/08/21 10:14*	*07/08/21 19:26*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/08/21 10:14*	*07/08/21 19:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.0**		4.95		mg/Kg			07/09/21 12:50	1

Client Sample ID: FL#14@10'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 10

Lab Sample ID: 890-894-15
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:07	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:07	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:07	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		07/08/21 15:42	07/09/21 13:07	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:07	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		07/08/21 15:42	07/09/21 13:07	1
Total BTEX	<0.00399	U F2 F1	0.00399		mg/Kg		07/08/21 15:42	07/09/21 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/08/21 15:42*	*07/09/21 13:07*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/08/21 15:42*	*07/09/21 13:07*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:47	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*07/08/21 10:14*	*07/08/21 19:47*	*1*
o-Terphenyl	*104*		*70 - 130*	*07/08/21 10:14*	*07/08/21 19:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.60**		4.95		mg/Kg			07/09/21 12:55	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#15@18'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 18

Lab Sample ID: 890-894-16

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:28	1
Ethylbenzene	**0.00267**		0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/08/21 15:42	07/09/21 13:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/08/21 15:42	07/09/21 13:28	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/08/21 15:42	07/09/21 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/08/21 15:42*	*07/09/21 13:28*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*07/08/21 15:42*	*07/09/21 13:28*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 20:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 20:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 20:08	1
Total TPH	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*07/08/21 10:14*	*07/08/21 20:08*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/08/21 10:14*	*07/08/21 20:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.1**		5.05		mg/Kg			07/09/21 13:12	1

Client Sample ID: FL#16@10'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 10

Lab Sample ID: 890-894-17

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/08/21 15:42	07/09/21 13:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 13:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/08/21 15:42	07/09/21 13:48	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/08/21 15:42	07/09/21 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*07/08/21 15:42*	*07/09/21 13:48*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/08/21 15:42*	*07/09/21 13:48*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#16@10'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 10

Lab Sample ID: 890-894-17
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 20:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 20:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 20:29	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*07/08/21 10:14*	*07/08/21 20:29*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*07/08/21 10:14*	*07/08/21 20:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.2**		5.04		mg/Kg			07/09/21 13:17	1

Client Sample ID: FL#17@18'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 18

Lab Sample ID: 890-894-18
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 14:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 14:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 14:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/21 15:42	07/09/21 14:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 14:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/21 15:42	07/09/21 14:09	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/08/21 15:42	07/09/21 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/08/21 15:42*	*07/09/21 14:09*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/08/21 15:42*	*07/09/21 14:09*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 20:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 20:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 20:49	1
Total TPH	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*07/08/21 10:14*	*07/08/21 20:49*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/08/21 10:14*	*07/08/21 20:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**112**		5.02		mg/Kg			07/09/21 13:34	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#19@4'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Lab Sample ID: 890-894-19

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 14:29	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 14:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 14:29	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/08/21 15:42	07/09/21 14:29	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 14:29	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/08/21 15:42	07/09/21 14:29	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/08/21 15:42	07/09/21 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/08/21 15:42*	*07/09/21 14:29*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*07/08/21 15:42*	*07/09/21 14:29*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 21:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 21:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 21:10	1
Total TPH	<49.9	U	49.9		mg/Kg		07/08/21 10:14	07/08/21 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*07/08/21 10:14*	*07/08/21 21:10*	*1*
o-Terphenyl	*124*		*70 - 130*	*07/08/21 10:14*	*07/08/21 21:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**308**		4.95		mg/Kg			07/09/21 13:39	1

Client Sample ID: FL#18@16'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 16

Lab Sample ID: 890-894-20

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 14:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 14:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 14:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/21 15:42	07/09/21 14:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 14:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/21 15:42	07/09/21 14:50	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/08/21 15:42	07/09/21 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*150*	*S1+*	*70 - 130*	*07/08/21 15:42*	*07/09/21 14:50*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*07/08/21 15:42*	*07/09/21 14:50*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#18@16'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 16

Lab Sample ID: 890-894-20
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 21:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 21:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 21:31	1
Total TPH	<49.8	U	49.8		mg/Kg		07/08/21 10:14	07/08/21 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/08/21 10:14*	*07/08/21 21:31*	*1*
o-Terphenyl	*116*		*70 - 130*	*07/08/21 10:14*	*07/08/21 21:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.4**		4.99		mg/Kg			07/09/21 13:45	1

Client Sample ID: FL#22@4'

Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25
Sample Depth: - 4

Lab Sample ID: 890-894-21
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 15:11	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 15:11	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 15:11	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/08/21 15:42	07/09/21 15:11	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/08/21 15:42	07/09/21 15:11	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/08/21 15:42	07/09/21 15:11	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/08/21 15:42	07/09/21 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/08/21 15:42*	*07/09/21 15:11*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*07/08/21 15:42*	*07/09/21 15:11*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/08/21 10:12	07/08/21 20:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/08/21 10:12	07/08/21 20:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/08/21 10:12	07/08/21 20:29	1
Total TPH	<49.9	U	49.9		mg/Kg		07/08/21 10:12	07/08/21 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/08/21 10:12*	*07/08/21 20:29*	*1*
o-Terphenyl	*116*		*70 - 130*	*07/08/21 10:12*	*07/08/21 20:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1000**		25.0		mg/Kg			07/09/21 13:50	5

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-894-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: ESW 46@4'
Lab Sample ID: 890-894-22
Date Collected: 07/07/21 00:00
Matrix: Solid
Date Received: 07/07/21 11:25
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 15:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 15:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 15:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/21 15:42	07/09/21 15:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/21 15:42	07/09/21 15:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/21 15:42	07/09/21 15:31	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/08/21 15:42	07/09/21 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*07/08/21 15:42*	*07/09/21 15:31*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/08/21 15:42*	*07/09/21 15:31*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/08/21 10:12	07/08/21 20:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/08/21 10:12	07/08/21 20:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/08/21 10:12	07/08/21 20:49	1
Total TPH	<49.8	U	49.8		mg/Kg		07/08/21 10:12	07/08/21 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/08/21 10:12*	*07/08/21 20:49*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/08/21 10:12*	*07/08/21 20:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**216**		4.96		mg/Kg			07/09/21 13:56	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-894-1	ESW#3@4'	110	93
890-894-2	NSW#4@4'	112	96
890-894-3	ESW#2@3'	99	98
890-894-4	FL#20@4'	114	90
890-894-5	SW#3@10'	112	96
890-894-5 MS	SW#3@10'	120	104
890-894-5 MSD	SW#3@10'	124	105
890-894-6	NSW#3@4'	105	91
890-894-7	WSW#1@4'	107	91
890-894-8	WSW#2@4'	109	93
890-894-9	WSW#3@4'	111	100
890-894-10	FL#21@4	275 S1+	260 S1+
890-894-11	FL#10@18'	107	91
890-894-12	FL#11@18'	94	91
890-894-13	FL#12@19'	114	92
890-894-14	FL#13@10'	111	92
890-894-15	FL#14@10'	118	103
890-894-15 MS	FL#14@10'	105	105
890-894-15 MSD	FL#14@10'	112	105
890-894-16	FL#15@18'	116	120
890-894-17	FL#16@10'	117	91
890-894-18	FL#17@18'	118	103
890-894-19	FL#19@4'	118	117
890-894-20	FL#18@16'	150 S1+	126
890-894-21	FL#22@4'	108	110
890-894-22	ESW 46@4'	131 S1+	102
LCS 880-4952/1-A	Lab Control Sample	120	105
LCS 880-4954/1-A	Lab Control Sample	118	104
LCS 880-4993/1-A	Lab Control Sample	102	96
LCSD 880-4952/2-A	Lab Control Sample Dup	119	106
LCSD 880-4954/2-A	Lab Control Sample Dup	113	104
LCSD 880-4993/2-A	Lab Control Sample Dup	102	94
MB 880-4952/5-A	Method Blank	88	93
MB 880-4954/5-A	Method Blank	86	86
MB 880-4993/5-A	Method Blank	107	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-894-1	ESW#3@4'	104	115
890-894-1 MS	ESW#3@4'	110	107
890-894-1 MSD	ESW#3@4'	98	96
890-894-2	NSW#4@4'	98	112

Surrogate Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-894-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-894-3	ESW#2@3'	100	112								
890-894-4	FL#20@4'	93	102								
890-894-5	SW#3@10'	110	122								
890-894-6	NSW#3@4'	126	144 S1+								
890-894-7	WSW#1@4'	92	105								
890-894-8	WSW#2@4'	105	119								
890-894-9	WSW#3@4'	105	120								
890-894-10	FL#21@4	117	133 S1+								
890-894-11	FL#10@18'	107	119								
890-894-12	FL#11@18'	103	114								
890-894-13	FL#12@19'	89	97								
890-894-14	FL#13@10'	94	109								
890-894-15	FL#14@10'	91	104								
890-894-16	FL#15@18'	96	102								
890-894-17	FL#16@10'	114	132 S1+								
890-894-18	FL#17@18'	96	110								
890-894-19	FL#19@4'	111	124								
890-894-20	FL#18@16'	103	116								
890-894-21	FL#22@4'	98	116								
890-894-22	ESW 46@4'	98	114								
LCS 880-4956/2-A	Lab Control Sample	86	92								
LCS 880-4957/2-A	Lab Control Sample	88	85								
LCSD 880-4956/3-A	Lab Control Sample Dup	87	91								
LCSD 880-4957/3-A	Lab Control Sample Dup	86	83								
MB 880-4956/1-A	Method Blank	82	96								
MB 880-4957/1-A	Method Blank	81	83								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4952/5-A
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4952

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/08/21 09:34	07/08/21 14:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*07/08/21 09:34*	*07/08/21 14:59*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/08/21 09:34*	*07/08/21 14:59*	*1*

Lab Sample ID: LCS 880-4952/1-A
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4952

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07674		mg/Kg		77	70 - 130
Toluene	0.100	0.08101		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.09256		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.2014		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1055		mg/Kg		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-4952/2-A
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4952

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07687		mg/Kg		77	70 - 130	0	35
Toluene	0.100	0.08053		mg/Kg		81	70 - 130	1	35
Ethylbenzene	0.100	0.09233		mg/Kg		92	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2026		mg/Kg		101	70 - 130	1	35
o-Xylene	0.100	0.1066		mg/Kg		107	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-4954/5-A
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 01:49	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-4954/5-A
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 01:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 01:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 01:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:40	07/09/21 01:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 01:49	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/08/21 09:40	07/09/21 01:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*07/08/21 09:40*	*07/09/21 01:49*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/08/21 09:40*	*07/09/21 01:49*	*1*

Lab Sample ID: LCS 880-4954/1-A
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4954

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07656		mg/Kg		77	70 - 130		
Toluene			0.100	0.08106		mg/Kg		81	70 - 130		
Ethylbenzene			0.100	0.09187		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene			0.200	0.1968		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.1044		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-4954/2-A
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4954

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07941		mg/Kg		79	70 - 130	4	35
Toluene			0.100	0.08343		mg/Kg		83	70 - 130	3	35
Ethylbenzene			0.100	0.09367		mg/Kg		94	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2006		mg/Kg		100	70 - 130	2	35
o-Xylene			0.100	0.1069		mg/Kg		107	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-894-5 MS
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: SW#3@10'
Prep Type: Total/NA
Prep Batch: 4954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U F1	0.0998	0.06893	F1	mg/Kg		69	70 - 130		
Toluene	<0.00199	U	0.0998	0.07220		mg/Kg		72	70 - 130		

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-894-5 MS
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: SW#3@10'
Prep Type: Total/NA
Prep Batch: 4954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U	0.0998	0.07992		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1681		mg/Kg		84	70 - 130
o-Xylene	<0.00199	U	0.0998	0.08842		mg/Kg		89	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-894-5 MSD
Matrix: Solid
Analysis Batch: 4964

Client Sample ID: SW#3@10'
Prep Type: Total/NA
Prep Batch: 4954

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0998	0.06700	F1	mg/Kg		67	70 - 130	3	35
Toluene	<0.00199	U	0.0998	0.06977		mg/Kg		70	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.0998	0.07583		mg/Kg		76	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1587		mg/Kg		79	70 - 130	6	35
o-Xylene	<0.00199	U	0.0998	0.08263		mg/Kg		83	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 880-4993/5-A
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4993

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 12:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 12:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 12:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/21 15:42	07/09/21 12:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 15:42	07/09/21 12:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/21 15:42	07/09/21 12:45	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/08/21 15:42	07/09/21 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/08/21 15:42*	*07/09/21 12:45*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/08/21 15:42*	*07/09/21 12:45*	*1*

Lab Sample ID: LCS 880-4993/1-A
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07440		mg/Kg		74	70 - 130
Toluene	0.100	0.07520		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.07308		mg/Kg		73	70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-4993/1-A
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4993

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
m-Xylene & p-Xylene			0.200	0.1421		mg/Kg		71	70 - 130		
o-Xylene			0.100	0.07960		mg/Kg		80	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-4993/2-A
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4993

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07565		mg/Kg		76	70 - 130	2	35
Toluene			0.100	0.07228		mg/Kg		72	70 - 130	4	35
Ethylbenzene			0.100	0.07587		mg/Kg		76	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1431		mg/Kg		72	70 - 130	1	35
o-Xylene			0.100	0.08519		mg/Kg		85	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-894-15 MS
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: FL#14@10'
Prep Type: Total/NA
Prep Batch: 4993

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U F1	0.101	0.04168	F1	mg/Kg		41	70 - 130		
Toluene	<0.00200	U F1	0.101	0.05340	F1	mg/Kg		52	70 - 130		
Ethylbenzene	<0.00200	U F1	0.101	0.05563	F1	mg/Kg		54	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.1001	F1	mg/Kg		50	70 - 130		
o-Xylene	<0.00200	U F1	0.101	0.05789	F1	mg/Kg		56	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-894-15 MSD
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: FL#14@10'
Prep Type: Total/NA
Prep Batch: 4993

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0994	0.05586	F1	mg/Kg		56	70 - 130	29	35
Toluene	<0.00200	U F1	0.0994	0.06398	F1	mg/Kg		63	70 - 130	18	35
Ethylbenzene	<0.00200	U F1	0.0994	0.06898	F1	mg/Kg		68	70 - 130	21	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1179	F1	mg/Kg		59	70 - 130	16	35
o-Xylene	<0.00200	U F1	0.0994	0.07656		mg/Kg		76	70 - 130	28	35

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-894-15 MSD
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: FL#14@10'
Prep Type: Total/NA
Prep Batch: 4993

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-4956/1-A
Matrix: Solid
Analysis Batch: 4958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4956

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 12:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 12:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 12:47	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 12:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	07/08/21 10:12	07/08/21 12:47	1
o-Terphenyl	96		70 - 130	07/08/21 10:12	07/08/21 12:47	1

Lab Sample ID: LCS 880-4956/2-A
Matrix: Solid
Analysis Batch: 4958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4956

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	969.1		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1044		mg/Kg		104	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-4956/3-A
Matrix: Solid
Analysis Batch: 4958

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4956

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1089		mg/Kg		109	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1052		mg/Kg		105	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	91		70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-4957/1-A
Matrix: Solid
Analysis Batch: 4960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 12:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 12:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 12:47	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:14	07/08/21 12:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/08/21 10:14*	*07/08/21 12:47*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/08/21 10:14*	*07/08/21 12:47*	*1*

Lab Sample ID: LCS 880-4957/2-A
Matrix: Solid
Analysis Batch: 4960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	949.4		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1010		mg/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: LCSD 880-4957/3-A
Matrix: Solid
Analysis Batch: 4960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4957

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	949.8		mg/Kg		95	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1014		mg/Kg		101	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: 890-894-1 MS
Matrix: Solid
Analysis Batch: 4960

Client Sample ID: ESW#3@4'
Prep Type: Total/NA
Prep Batch: 4957

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	999	1188		mg/Kg		116	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U F1	999	1410	F1	mg/Kg		138	70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-894-1 MS
Matrix: Solid
Analysis Batch: 4960

Client Sample ID: ESW#3@4'
Prep Type: Total/NA
Prep Batch: 4957

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: 890-894-1 MSD
Matrix: Solid
Analysis Batch: 4960

Client Sample ID: ESW#3@4'
Prep Type: Total/NA
Prep Batch: 4957

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	997	1117		mg/Kg		109	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.7	U F1	997	1259		mg/Kg		123	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4976/1-A
Matrix: Solid
Analysis Batch: 4984

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/08/21 15:05	1

Lab Sample ID: LCS 880-4976/2-A
Matrix: Solid
Analysis Batch: 4984

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	238.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-4976/3-A
Matrix: Solid
Analysis Batch: 4984

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	239.5		mg/Kg		96	90 - 110	0	20

Lab Sample ID: MB 880-4977/1-A
Matrix: Solid
Analysis Batch: 5000

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/09/21 11:22	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4977/2-A
Matrix: Solid
Analysis Batch: 5000

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	250.4		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-4977/3-A
Matrix: Solid
Analysis Batch: 5000

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	250.2		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-894-5 MS
Matrix: Solid
Analysis Batch: 5000

Client Sample ID: SW#3@10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	108		248	368.9		mg/Kg		105	90 - 110

Lab Sample ID: 890-894-5 MSD
Matrix: Solid
Analysis Batch: 5000

Client Sample ID: SW#3@10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	108		248	367.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-894-15 MS
Matrix: Solid
Analysis Batch: 5000

Client Sample ID: FL#14@10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.60		248	273.8		mg/Kg		107	90 - 110

Lab Sample ID: 890-894-15 MSD
Matrix: Solid
Analysis Batch: 5000

Client Sample ID: FL#14@10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.60		248	271.8		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

GC VOA

Prep Batch: 4952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-1	ESW#3@4'	Total/NA	Solid	5035	
890-894-2	NSW#4@4'	Total/NA	Solid	5035	
890-894-3	ESW#2@3'	Total/NA	Solid	5035	
890-894-4	FL#20@4'	Total/NA	Solid	5035	
MB 880-4952/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4952/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4952/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 4954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-5	SW#3@10'	Total/NA	Solid	5035	
890-894-6	NSW#3@4'	Total/NA	Solid	5035	
890-894-7	WSW#1@4'	Total/NA	Solid	5035	
890-894-8	WSW#2@4'	Total/NA	Solid	5035	
890-894-9	WSW#3@4'	Total/NA	Solid	5035	
890-894-10	FL#21@4	Total/NA	Solid	5035	
890-894-11	FL#10@18'	Total/NA	Solid	5035	
890-894-12	FL#11@18'	Total/NA	Solid	5035	
890-894-13	FL#12@19'	Total/NA	Solid	5035	
890-894-14	FL#13@10'	Total/NA	Solid	5035	
MB 880-4954/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4954/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4954/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-894-5 MS	SW#3@10'	Total/NA	Solid	5035	
890-894-5 MSD	SW#3@10'	Total/NA	Solid	5035	

Analysis Batch: 4964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-1	ESW#3@4'	Total/NA	Solid	8021B	4952
890-894-2	NSW#4@4'	Total/NA	Solid	8021B	4952
890-894-3	ESW#2@3'	Total/NA	Solid	8021B	4952
890-894-4	FL#20@4'	Total/NA	Solid	8021B	4952
890-894-5	SW#3@10'	Total/NA	Solid	8021B	4954
890-894-6	NSW#3@4'	Total/NA	Solid	8021B	4954
890-894-7	WSW#1@4'	Total/NA	Solid	8021B	4954
890-894-8	WSW#2@4'	Total/NA	Solid	8021B	4954
890-894-9	WSW#3@4'	Total/NA	Solid	8021B	4954
890-894-10	FL#21@4	Total/NA	Solid	8021B	4954
890-894-11	FL#10@18'	Total/NA	Solid	8021B	4954
890-894-12	FL#11@18'	Total/NA	Solid	8021B	4954
890-894-13	FL#12@19'	Total/NA	Solid	8021B	4954
890-894-14	FL#13@10'	Total/NA	Solid	8021B	4954
MB 880-4952/5-A	Method Blank	Total/NA	Solid	8021B	4952
MB 880-4954/5-A	Method Blank	Total/NA	Solid	8021B	4954
LCS 880-4952/1-A	Lab Control Sample	Total/NA	Solid	8021B	4952
LCS 880-4954/1-A	Lab Control Sample	Total/NA	Solid	8021B	4954
LCSD 880-4952/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4952
LCSD 880-4954/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4954
890-894-5 MS	SW#3@10'	Total/NA	Solid	8021B	4954
890-894-5 MSD	SW#3@10'	Total/NA	Solid	8021B	4954

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

GC VOA

Prep Batch: 4993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-15	FL#14@10'	Total/NA	Solid	5035	
890-894-16	FL#15@18'	Total/NA	Solid	5035	
890-894-17	FL#16@10'	Total/NA	Solid	5035	
890-894-18	FL#17@18'	Total/NA	Solid	5035	
890-894-19	FL#19@4'	Total/NA	Solid	5035	
890-894-20	FL#18@16'	Total/NA	Solid	5035	
890-894-21	FL#22@4'	Total/NA	Solid	5035	
890-894-22	ESW 46@4'	Total/NA	Solid	5035	
MB 880-4993/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4993/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4993/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-894-15 MS	FL#14@10'	Total/NA	Solid	5035	
890-894-15 MSD	FL#14@10'	Total/NA	Solid	5035	

Analysis Batch: 5006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-15	FL#14@10'	Total/NA	Solid	8021B	4993
890-894-16	FL#15@18'	Total/NA	Solid	8021B	4993
890-894-17	FL#16@10'	Total/NA	Solid	8021B	4993
890-894-18	FL#17@18'	Total/NA	Solid	8021B	4993
890-894-19	FL#19@4'	Total/NA	Solid	8021B	4993
890-894-20	FL#18@16'	Total/NA	Solid	8021B	4993
890-894-21	FL#22@4'	Total/NA	Solid	8021B	4993
890-894-22	ESW 46@4'	Total/NA	Solid	8021B	4993
MB 880-4993/5-A	Method Blank	Total/NA	Solid	8021B	4993
LCS 880-4993/1-A	Lab Control Sample	Total/NA	Solid	8021B	4993
LCSD 880-4993/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4993
890-894-15 MS	FL#14@10'	Total/NA	Solid	8021B	4993
890-894-15 MSD	FL#14@10'	Total/NA	Solid	8021B	4993

GC Semi VOA

Prep Batch: 4956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-21	FL#22@4'	Total/NA	Solid	8015NM Prep	
890-894-22	ESW 46@4'	Total/NA	Solid	8015NM Prep	
MB 880-4956/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4956/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 4957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-1	ESW#3@4'	Total/NA	Solid	8015NM Prep	
890-894-2	NSW#4@4'	Total/NA	Solid	8015NM Prep	
890-894-3	ESW#2@3'	Total/NA	Solid	8015NM Prep	
890-894-4	FL#20@4'	Total/NA	Solid	8015NM Prep	
890-894-5	SW#3@10'	Total/NA	Solid	8015NM Prep	
890-894-6	NSW#3@4'	Total/NA	Solid	8015NM Prep	
890-894-7	WSW#1@4'	Total/NA	Solid	8015NM Prep	
890-894-8	WSW#2@4'	Total/NA	Solid	8015NM Prep	
890-894-9	WSW#3@4'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

GC Semi VOA (Continued)

Prep Batch: 4957 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-10	FL#21@4	Total/NA	Solid	8015NM Prep	
890-894-11	FL#10@18'	Total/NA	Solid	8015NM Prep	
890-894-12	FL#11@18'	Total/NA	Solid	8015NM Prep	
890-894-13	FL#12@19'	Total/NA	Solid	8015NM Prep	
890-894-14	FL#13@10'	Total/NA	Solid	8015NM Prep	
890-894-15	FL#14@10'	Total/NA	Solid	8015NM Prep	
890-894-16	FL#15@18'	Total/NA	Solid	8015NM Prep	
890-894-17	FL#16@10'	Total/NA	Solid	8015NM Prep	
890-894-18	FL#17@18'	Total/NA	Solid	8015NM Prep	
890-894-19	FL#19@4'	Total/NA	Solid	8015NM Prep	
890-894-20	FL#18@16'	Total/NA	Solid	8015NM Prep	
MB 880-4957/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4957/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-894-1 MS	ESW#3@4'	Total/NA	Solid	8015NM Prep	
890-894-1 MSD	ESW#3@4'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-21	FL#22@4'	Total/NA	Solid	8015B NM	4956
890-894-22	ESW 46@4'	Total/NA	Solid	8015B NM	4956
MB 880-4956/1-A	Method Blank	Total/NA	Solid	8015B NM	4956
LCS 880-4956/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4956
LCSD 880-4956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4956

Analysis Batch: 4960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-1	ESW#3@4'	Total/NA	Solid	8015B NM	4957
890-894-2	NSW#4@4'	Total/NA	Solid	8015B NM	4957
890-894-3	ESW#2@3'	Total/NA	Solid	8015B NM	4957
890-894-4	FL#20@4'	Total/NA	Solid	8015B NM	4957
890-894-5	SW#3@10'	Total/NA	Solid	8015B NM	4957
890-894-6	NSW#3@4'	Total/NA	Solid	8015B NM	4957
890-894-7	WSW#1@4'	Total/NA	Solid	8015B NM	4957
890-894-8	WSW#2@4'	Total/NA	Solid	8015B NM	4957
890-894-9	WSW#3@4'	Total/NA	Solid	8015B NM	4957
890-894-10	FL#21@4	Total/NA	Solid	8015B NM	4957
890-894-11	FL#10@18'	Total/NA	Solid	8015B NM	4957
890-894-12	FL#11@18'	Total/NA	Solid	8015B NM	4957
890-894-13	FL#12@19'	Total/NA	Solid	8015B NM	4957
890-894-14	FL#13@10'	Total/NA	Solid	8015B NM	4957
890-894-15	FL#14@10'	Total/NA	Solid	8015B NM	4957
890-894-16	FL#15@18'	Total/NA	Solid	8015B NM	4957
890-894-17	FL#16@10'	Total/NA	Solid	8015B NM	4957
890-894-18	FL#17@18'	Total/NA	Solid	8015B NM	4957
890-894-19	FL#19@4'	Total/NA	Solid	8015B NM	4957
890-894-20	FL#18@16'	Total/NA	Solid	8015B NM	4957
MB 880-4957/1-A	Method Blank	Total/NA	Solid	8015B NM	4957
LCS 880-4957/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4957
LCSD 880-4957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4957
890-894-1 MS	ESW#3@4'	Total/NA	Solid	8015B NM	4957

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

GC Semi VOA (Continued)

Analysis Batch: 4960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-1 MSD	ESW#3@4'	Total/NA	Solid	8015B NM	4957

HPLC/IC

Leach Batch: 4976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-1	ESW#3@4'	Soluble	Solid	DI Leach	
890-894-2	NSW#4@4'	Soluble	Solid	DI Leach	
890-894-3	ESW#2@3'	Soluble	Solid	DI Leach	
890-894-4	FL#20@4'	Soluble	Solid	DI Leach	
MB 880-4976/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4976/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4976/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 4977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-5	SW#3@10'	Soluble	Solid	DI Leach	
890-894-6	NSW#3@4'	Soluble	Solid	DI Leach	
890-894-7	WSW#1@4'	Soluble	Solid	DI Leach	
890-894-8	WSW#2@4'	Soluble	Solid	DI Leach	
890-894-9	WSW#3@4'	Soluble	Solid	DI Leach	
890-894-10	FL#21@4	Soluble	Solid	DI Leach	
890-894-11	FL#10@18'	Soluble	Solid	DI Leach	
890-894-12	FL#11@18'	Soluble	Solid	DI Leach	
890-894-13	FL#12@19'	Soluble	Solid	DI Leach	
890-894-14	FL#13@10'	Soluble	Solid	DI Leach	
890-894-15	FL#14@10'	Soluble	Solid	DI Leach	
890-894-16	FL#15@18'	Soluble	Solid	DI Leach	
890-894-17	FL#16@10'	Soluble	Solid	DI Leach	
890-894-18	FL#17@18'	Soluble	Solid	DI Leach	
890-894-19	FL#19@4'	Soluble	Solid	DI Leach	
890-894-20	FL#18@16'	Soluble	Solid	DI Leach	
890-894-21	FL#22@4'	Soluble	Solid	DI Leach	
890-894-22	ESW 46@4'	Soluble	Solid	DI Leach	
MB 880-4977/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4977/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4977/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-894-5 MS	SW#3@10'	Soluble	Solid	DI Leach	
890-894-5 MSD	SW#3@10'	Soluble	Solid	DI Leach	
890-894-15 MS	FL#14@10'	Soluble	Solid	DI Leach	
890-894-15 MSD	FL#14@10'	Soluble	Solid	DI Leach	

Analysis Batch: 4984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-1	ESW#3@4'	Soluble	Solid	300.0	4976
890-894-2	NSW#4@4'	Soluble	Solid	300.0	4976
890-894-3	ESW#2@3'	Soluble	Solid	300.0	4976
890-894-4	FL#20@4'	Soluble	Solid	300.0	4976
MB 880-4976/1-A	Method Blank	Soluble	Solid	300.0	4976
LCS 880-4976/2-A	Lab Control Sample	Soluble	Solid	300.0	4976
LCSD 880-4976/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4976

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

HPLC/IC

Analysis Batch: 5000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-894-5	SW#3@10'	Soluble	Solid	300.0	4977
890-894-6	NSW#3@4'	Soluble	Solid	300.0	4977
890-894-7	WSW#1@4'	Soluble	Solid	300.0	4977
890-894-8	WSW#2@4'	Soluble	Solid	300.0	4977
890-894-9	WSW#3@4'	Soluble	Solid	300.0	4977
890-894-10	FL#21@4	Soluble	Solid	300.0	4977
890-894-11	FL#10@18'	Soluble	Solid	300.0	4977
890-894-12	FL#11@18'	Soluble	Solid	300.0	4977
890-894-13	FL#12@19'	Soluble	Solid	300.0	4977
890-894-14	FL#13@10'	Soluble	Solid	300.0	4977
890-894-15	FL#14@10'	Soluble	Solid	300.0	4977
890-894-16	FL#15@18'	Soluble	Solid	300.0	4977
890-894-17	FL#16@10'	Soluble	Solid	300.0	4977
890-894-18	FL#17@18'	Soluble	Solid	300.0	4977
890-894-19	FL#19@4'	Soluble	Solid	300.0	4977
890-894-20	FL#18@16'	Soluble	Solid	300.0	4977
890-894-21	FL#22@4'	Soluble	Solid	300.0	4977
890-894-22	ESW 46@4'	Soluble	Solid	300.0	4977
MB 880-4977/1-A	Method Blank	Soluble	Solid	300.0	4977
LCS 880-4977/2-A	Lab Control Sample	Soluble	Solid	300.0	4977
LCSD 880-4977/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4977
890-894-5 MS	SW#3@10'	Soluble	Solid	300.0	4977
890-894-5 MSD	SW#3@10'	Soluble	Solid	300.0	4977
890-894-15 MS	FL#14@10'	Soluble	Solid	300.0	4977
890-894-15 MSD	FL#14@10'	Soluble	Solid	300.0	4977

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: ESW#3@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/08/21 21:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 13:51	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			4984	07/08/21 17:17	CH	XEN MID

Client Sample ID: NSW#4@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/08/21 22:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 14:54	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			4984	07/08/21 17:22	CH	XEN MID

Client Sample ID: ESW#2@3'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/08/21 22:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 15:14	AM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			4984	07/08/21 17:27	CH	XEN MID

Client Sample ID: FL#20@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/08/21 22:49	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 15:35	AM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			4984	07/08/21 17:32	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: SW#3@10'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 02:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 15:56	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 11:38	CH	XEN MID

Client Sample ID: NSW#3@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 02:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 16:17	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 11:55	CH	XEN MID

Client Sample ID: WSW#1@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 02:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 16:38	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:00	CH	XEN MID

Client Sample ID: WSW#2@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 03:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 16:59	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:06	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: WSW#3@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 03:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 17:20	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:11	CH	XEN MID

Client Sample ID: FL#21@4
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 03:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 17:41	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:28	CH	XEN MID

Client Sample ID: FL#10@18'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 04:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 18:23	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:33	CH	XEN MID

Client Sample ID: FL#11@18'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 04:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 18:44	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:39	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#12@19'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 04:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 19:05	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:44	CH	XEN MID

Client Sample ID: FL#13@10'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	4954	07/08/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4964	07/09/21 05:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 19:26	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:50	CH	XEN MID

Client Sample ID: FL#14@10'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 13:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 19:47	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 12:55	CH	XEN MID

Client Sample ID: FL#15@18'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 13:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 20:08	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 13:12	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#16@10'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 13:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 20:29	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 13:17	CH	XEN MID

Client Sample ID: FL#17@18'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 14:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 20:49	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 13:34	CH	XEN MID

Client Sample ID: FL#19@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 14:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 21:10	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 13:39	CH	XEN MID

Client Sample ID: FL#18@16'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 14:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	4957	07/08/21 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4960	07/08/21 21:31	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 13:45	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Client Sample ID: FL#22@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 15:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4958	07/08/21 20:29	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		5			5000	07/09/21 13:50	CH	XEN MID

Client Sample ID: ESW 46@4'
Date Collected: 07/07/21 00:00
Date Received: 07/07/21 11:25

Lab Sample ID: 890-894-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	4993	07/08/21 15:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5006	07/09/21 15:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4958	07/08/21 20:49	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	4977	07/08/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			5000	07/09/21 13:56	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-894-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
SDG: 13714

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-894-1	ESW#3@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-2	NSW#4@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-3	ESW#2@3'	Solid	07/07/21 00:00	07/07/21 11:25	- 3
890-894-4	FL#20@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-5	SW#3@10'	Solid	07/07/21 00:00	07/07/21 11:25	- 10
890-894-6	NSW#3@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-7	WSW#1@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-8	WSW#2@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-9	WSW#3@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-10	FL#21@4	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-11	FL#10@18'	Solid	07/07/21 00:00	07/07/21 11:25	- 18
890-894-12	FL#11@18'	Solid	07/07/21 00:00	07/07/21 11:25	- 18
890-894-13	FL#12@19'	Solid	07/07/21 00:00	07/07/21 11:25	- 19
890-894-14	FL#13@10'	Solid	07/07/21 00:00	07/07/21 11:25	- 10
890-894-15	FL#14@10'	Solid	07/07/21 00:00	07/07/21 11:25	- 10
890-894-16	FL#15@18'	Solid	07/07/21 00:00	07/07/21 11:25	- 18
890-894-17	FL#16@10'	Solid	07/07/21 00:00	07/07/21 11:25	- 10
890-894-18	FL#17@18'	Solid	07/07/21 00:00	07/07/21 11:25	- 18
890-894-19	FL#19@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-20	FL#18@16'	Solid	07/07/21 00:00	07/07/21 11:25	- 16
890-894-21	FL#22@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4
890-894-22	ESW 46@4'	Solid	07/07/21 00:00	07/07/21 11:25	- 4

Page 648 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Page 1 of 3

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	7.6/7.4	Thermometer ID	
Received Intact:	(Yes) No	T-NM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

890-894 Chain of Custody

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
ESW#3 @ 4'		7/7/21			1	X	X	X		
NSW#4@4'		7-7-21			1	X	X	X		
ESW#2@3'		7-7-21			1	X	X	X		
FL#20@4'		7-7-21			1	X	X	X		
SW#3@10		7-7-21			1	X	X	X		
NSW#3@4'		7-7-21			1	X	X	X		
WSW#1@4'		7-7-21			1	X	X	X		
WSW#2@4'		7-7-21			1	X	X	X		
WSW#3@4'		7-7-21			1	X	X	X		
~~WSW#~~ FL#2 1@4'		7-7-21			1	X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7-7-21 10:40	2		
3		7/7/21 11:25	4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Page 649 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-8701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☑
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13914	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	7.6/7.4	Thermometer ID	
Received Intact:	(Yes) No	T-NM-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
FL # 10 @ 18'	Soil	7-7-21			1	X	X	X		
FL # 11 @ 18'	Soil	7-7-21			1	X	X	X		
FL # 12 @ 19'	Soil	7-7-21			1	X	X	X		
FL # 13 @ 10'	Soil	7-7-21			1	X	X	X		
FL # 14 @ 10'	Soil	7-7-21			1	X	X	X		
FL # 15 @ 18'	Soil	7-7-21			1	X	X	X		
FL # 16 @ 10'	Soil	7-7-21			1	X	X	X		
FL # 17 @ 18'	Soil	7-7-21			1	X	X	X		
FL # 19 @ 4'	Soil	7-7-21			1	X	X	X		
FL # 18 @ 16'	Soil	7-7-21			1	X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7-7-21/10:00	2		
3		7/7/21	4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Page 650 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle Gwilliam	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	7.6 / 7.4	Thermometer ID		
Received Intact:	(Yes) No	FNM-007		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
FL #2 at 4'		7-7-21			1	X	X	X		
ESW 46 at 4'		7-7-21			1	X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7-7-21 · 10:46	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Page 46 of 48

7/12/2021

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-894-1
SDG Number: 13714

Login Number: 894
List Number: 1
Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-894-1
SDG Number: 13714

Login Number: 894
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 07/08/21 11:34 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

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Laboratory Job ID: 890-911-1
Laboratory Sample Delivery Group: 13714
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
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Midland, Texas 79711

Attn: PM List

JKramer

Authorized for release by:
7/15/2021 2:35:55 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Laboratory Job ID: 890-911-1
SDG: 13714

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 9
QC Sample Results 10
QC Association Summary 14
Lab Chronicle 16
Certification Summary 18
Method Summary 19
Sample Summary 20
Chain of Custody 21
Receipt Checklists 23

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-911-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Job ID: 890-911-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-911-1

Receipt
The samples were received on 7/8/2021 3:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 23.6°C

Receipt Exceptions
The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FL # 24 @ 5 (890-911-1), FL #23 @4 (890-911-2), FL #26 @ 4 (890-911-3), WSW #6 @4 (890-911-4) and ESW #5 @5 (890-911-5).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Client Sample ID: FL # 24 @ 5

Lab Sample ID: 890-911-1
Matrix: Solid
Date Collected: 07/08/21 14:30
Date Received: 07/08/21 15:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		07/10/21 10:35	07/11/21 17:30	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		07/10/21 10:35	07/11/21 17:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/10/21 10:35	07/11/21 17:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/10/21 10:35	07/11/21 17:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/10/21 10:35	07/11/21 17:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/10/21 10:35	07/11/21 17:30	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/10/21 10:35	07/11/21 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*07/10/21 10:35*	*07/11/21 17:30*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/10/21 10:35*	*07/11/21 17:30*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:36	1
Total TPH	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/12/21 10:12*	*07/13/21 03:36*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/12/21 10:12*	*07/13/21 03:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**153**		5.04		mg/Kg			07/14/21 20:07	1

Client Sample ID: FL #23 @4

Lab Sample ID: 890-911-2
Matrix: Solid
Date Collected: 07/08/21 14:30
Date Received: 07/08/21 15:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/10/21 10:35	07/11/21 17:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/10/21 10:35	07/11/21 17:50	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/10/21 10:35	07/11/21 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/10/21 10:35*	*07/11/21 17:50*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/10/21 10:35*	*07/11/21 17:50*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:57	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Client Sample ID: FL #23 @4

Lab Sample ID: 890-911-2
Matrix: Solid
Date Collected: 07/08/21 14:30
Date Received: 07/08/21 15:32

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:57	1
Total TPH	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 03:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/12/21 10:12*	*07/13/21 03:57*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/12/21 10:12*	*07/13/21 03:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.9**		4.97		mg/Kg			07/14/21 20:24	1

Client Sample ID: FL #26 @ 4

Lab Sample ID: 890-911-3
Matrix: Solid
Date Collected: 07/08/21 14:30
Date Received: 07/08/21 15:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/10/21 10:35	07/11/21 18:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/10/21 10:35	07/11/21 18:11	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/10/21 10:35	07/11/21 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/10/21 10:35*	*07/11/21 18:11*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/10/21 10:35*	*07/11/21 18:11*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:19	1
Total TPH	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*07/12/21 10:12*	*07/13/21 04:19*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/12/21 10:12*	*07/13/21 04:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**371**		4.99		mg/Kg			07/14/21 20:29	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Client Sample ID: WSW #6 @4

Lab Sample ID: 890-911-4
Matrix: Solid
Date Collected: 07/08/21 14:30
Date Received: 07/08/21 15:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/10/21 10:35	07/11/21 18:31	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/10/21 10:35	07/11/21 18:31	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/10/21 10:35	07/11/21 18:31	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/10/21 10:35	07/11/21 18:31	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/10/21 10:35	07/11/21 18:31	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/10/21 10:35	07/11/21 18:31	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/10/21 10:35	07/11/21 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/10/21 10:35*	*07/11/21 18:31*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/10/21 10:35*	*07/11/21 18:31*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:40	1
Total TPH	<49.9	U	49.9		mg/Kg		07/12/21 10:12	07/13/21 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*07/12/21 10:12*	*07/13/21 04:40*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/12/21 10:12*	*07/13/21 04:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**282**		5.04		mg/Kg			07/14/21 20:34	1

Client Sample ID: ESW #5 @5

Lab Sample ID: 890-911-5
Matrix: Solid
Date Collected: 07/08/21 14:30
Date Received: 07/08/21 15:32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/10/21 10:35	07/11/21 18:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 18:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/10/21 10:35	07/11/21 18:52	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/10/21 10:35	07/11/21 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/10/21 10:35*	*07/11/21 18:52*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/10/21 10:35*	*07/11/21 18:52*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 05:01	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-911-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: ESW #5 @5
Lab Sample ID: 890-911-5
Date Collected: 07/08/21 14:30
Matrix: Solid
Date Received: 07/08/21 15:32

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 05:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 05:01	1
Total TPH	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/13/21 05:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/12/21 10:12*	*07/13/21 05:01*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/12/21 10:12*	*07/13/21 05:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.3**		5.02		mg/Kg			07/14/21 20:40	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-911-1	FL # 24 @ 5	100	100
890-911-1 MS	FL # 24 @ 5	115	104
890-911-1 MSD	FL # 24 @ 5	111	104
890-911-2	FL #23 @4	103	91
890-911-3	FL #26 @ 4	107	95
890-911-4	WSW #6 @4	96	99
890-911-5	ESW #5 @5	110	92
LCS 880-5016/1-A	Lab Control Sample	131 S1+	118
LCSD 880-5016/2-A	Lab Control Sample Dup	134 S1+	123
MB 880-5016/5-A	Method Blank	89	91
MB 880-5043/5-A	Method Blank	117	84

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-911-1	FL # 24 @ 5	97	108
890-911-2	FL #23 @4	97	109
890-911-3	FL #26 @ 4	95	107
890-911-4	WSW #6 @4	99	111
890-911-5	ESW #5 @5	98	111
LCS 880-5077/2-A	Lab Control Sample	93	99
LCSD 880-5077/3-A	Lab Control Sample Dup	83	88
MB 880-5077/1-A	Method Blank	93	105

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5016/5-A
Matrix: Solid
Analysis Batch: 5061

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/10/21 10:35	07/11/21 17:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/10/21 10:35	07/11/21 17:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/10/21 10:35	07/11/21 17:08	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/10/21 10:35	07/11/21 17:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/10/21 10:35*	*07/11/21 17:08*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/10/21 10:35*	*07/11/21 17:08*	*1*

Lab Sample ID: LCS 880-5016/1-A
Matrix: Solid
Analysis Batch: 5061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5016

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07102		mg/Kg		71	70 - 130		
Toluene			0.100	0.07730		mg/Kg		77	70 - 130		
Ethylbenzene			0.100	0.08937		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1911		mg/Kg		96	70 - 130		
o-Xylene			0.100	0.1038		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: LCSD 880-5016/2-A
Matrix: Solid
Analysis Batch: 5061

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5016

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08194		mg/Kg		82	70 - 130	14	35
Toluene			0.100	0.08937		mg/Kg		89	70 - 130	14	35
Ethylbenzene			0.100	0.1025		mg/Kg		103	70 - 130	14	35
m-Xylene & p-Xylene			0.200	0.2168		mg/Kg		108	70 - 130	13	35
o-Xylene			0.100	0.1176		mg/Kg		118	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*

Lab Sample ID: 890-911-1 MS
Matrix: Solid
Analysis Batch: 5061

Client Sample ID: FL # 24 @ 5
Prep Type: Total/NA
Prep Batch: 5016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U F1	0.100	0.05980	F1	mg/Kg		60	70 - 130		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-911-1 MS
Matrix: Solid
Analysis Batch: 5061

Client Sample ID: FL # 24 @ 5
Prep Type: Total/NA
Prep Batch: 5016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00199	U F1	0.100	0.06582	F1	mg/Kg		66	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.07547		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1566		mg/Kg		78	70 - 130
o-Xylene	<0.00199	U	0.100	0.08246		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-911-1 MSD
Matrix: Solid
Analysis Batch: 5061

Client Sample ID: FL # 24 @ 5
Prep Type: Total/NA
Prep Batch: 5016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0996	0.05746	F1	mg/Kg		58	70 - 130	4	35
Toluene	<0.00199	U F1	0.0996	0.06294	F1	mg/Kg		63	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.0996	0.07118		mg/Kg		71	70 - 130	6	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1471		mg/Kg		74	70 - 130	6	35
o-Xylene	<0.00199	U	0.0996	0.07778		mg/Kg		78	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-5043/5-A
Matrix: Solid
Analysis Batch: 5061

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5043

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/10/21 09:30	07/11/21 06:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/10/21 09:30	07/11/21 06:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/10/21 09:30	07/11/21 06:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/10/21 09:30	07/11/21 06:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/10/21 09:30	07/11/21 06:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/10/21 09:30	07/11/21 06:17	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/10/21 09:30	07/11/21 06:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*07/10/21 09:30*	*07/11/21 06:17*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*07/10/21 09:30*	*07/11/21 06:17*	*1*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-5077/1-A
Matrix: Solid
Analysis Batch: 5065

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/12/21 20:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/12/21 20:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/12/21 20:16	1
Total TPH	<50.0	U	50.0		mg/Kg		07/12/21 10:12	07/12/21 20:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*07/12/21 10:12*	*07/12/21 20:16*	*1*
o-Terphenyl	*105*		*70 - 130*	*07/12/21 10:12*	*07/12/21 20:16*	*1*

Lab Sample ID: LCS 880-5077/2-A
Matrix: Solid
Analysis Batch: 5065

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5077

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1006		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1179		mg/Kg		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-5077/3-A
Matrix: Solid
Analysis Batch: 5065

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5077

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	971.0		mg/Kg		97	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1008		mg/Kg		101	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5011/1-A
Matrix: Solid
Analysis Batch: 5102

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/14/21 19:19	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-5011/2-A
Matrix: Solid
Analysis Batch: 5102

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	258.6		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-5011/3-A
Matrix: Solid
Analysis Batch: 5102

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.2		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

GC VOA

Prep Batch: 5016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-911-1	FL # 24 @ 5	Total/NA	Solid	5035	
890-911-2	FL #23 @4	Total/NA	Solid	5035	
890-911-3	FL #26 @ 4	Total/NA	Solid	5035	
890-911-4	WSW #6 @4	Total/NA	Solid	5035	
890-911-5	ESW #5 @5	Total/NA	Solid	5035	
MB 880-5016/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5016/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5016/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-911-1 MS	FL # 24 @ 5	Total/NA	Solid	5035	
890-911-1 MSD	FL # 24 @ 5	Total/NA	Solid	5035	

Prep Batch: 5043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5043/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 5061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-911-1	FL # 24 @ 5	Total/NA	Solid	8021B	5016
890-911-2	FL #23 @4	Total/NA	Solid	8021B	5016
890-911-3	FL #26 @ 4	Total/NA	Solid	8021B	5016
890-911-4	WSW #6 @4	Total/NA	Solid	8021B	5016
890-911-5	ESW #5 @5	Total/NA	Solid	8021B	5016
MB 880-5016/5-A	Method Blank	Total/NA	Solid	8021B	5016
MB 880-5043/5-A	Method Blank	Total/NA	Solid	8021B	5043
LCS 880-5016/1-A	Lab Control Sample	Total/NA	Solid	8021B	5016
LCSD 880-5016/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5016
890-911-1 MS	FL # 24 @ 5	Total/NA	Solid	8021B	5016
890-911-1 MSD	FL # 24 @ 5	Total/NA	Solid	8021B	5016

GC Semi VOA

Analysis Batch: 5065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-911-1	FL # 24 @ 5	Total/NA	Solid	8015B NM	5077
890-911-2	FL #23 @4	Total/NA	Solid	8015B NM	5077
890-911-3	FL #26 @ 4	Total/NA	Solid	8015B NM	5077
890-911-4	WSW #6 @4	Total/NA	Solid	8015B NM	5077
890-911-5	ESW #5 @5	Total/NA	Solid	8015B NM	5077
MB 880-5077/1-A	Method Blank	Total/NA	Solid	8015B NM	5077
LCS 880-5077/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5077
LCSD 880-5077/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5077

Prep Batch: 5077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-911-1	FL # 24 @ 5	Total/NA	Solid	8015NM Prep	
890-911-2	FL #23 @4	Total/NA	Solid	8015NM Prep	
890-911-3	FL #26 @ 4	Total/NA	Solid	8015NM Prep	
890-911-4	WSW #6 @4	Total/NA	Solid	8015NM Prep	
890-911-5	ESW #5 @5	Total/NA	Solid	8015NM Prep	
MB 880-5077/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5077/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

GC Semi VOA (Continued)

Prep Batch: 5077 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-5077/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 5011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-911-1	FL # 24 @ 5	Soluble	Solid	DI Leach	
890-911-2	FL #23 @4	Soluble	Solid	DI Leach	
890-911-3	FL #26 @ 4	Soluble	Solid	DI Leach	
890-911-4	WSW #6 @4	Soluble	Solid	DI Leach	
890-911-5	ESW #5 @5	Soluble	Solid	DI Leach	
MB 880-5011/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5011/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5011/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 5102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-911-1	FL # 24 @ 5	Soluble	Solid	300.0	5011
890-911-2	FL #23 @4	Soluble	Solid	300.0	5011
890-911-3	FL #26 @ 4	Soluble	Solid	300.0	5011
890-911-4	WSW #6 @4	Soluble	Solid	300.0	5011
890-911-5	ESW #5 @5	Soluble	Solid	300.0	5011
MB 880-5011/1-A	Method Blank	Soluble	Solid	300.0	5011
LCS 880-5011/2-A	Lab Control Sample	Soluble	Solid	300.0	5011
LCSD 880-5011/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5011

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-911-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL # 24 @ 5
Lab Sample ID: 890-911-1
Date Collected: 07/08/21 14:30
Matrix: Solid
Date Received: 07/08/21 15:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5016	07/10/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5061	07/11/21 17:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5077	07/12/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5065	07/13/21 03:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5011	07/09/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5102	07/14/21 20:07	CH	XEN MID

Client Sample ID: FL #23 @4
Lab Sample ID: 890-911-2
Date Collected: 07/08/21 14:30
Matrix: Solid
Date Received: 07/08/21 15:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5016	07/10/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5061	07/11/21 17:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5077	07/12/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5065	07/13/21 03:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5011	07/09/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5102	07/14/21 20:24	CH	XEN MID

Client Sample ID: FL #26 @ 4
Lab Sample ID: 890-911-3
Date Collected: 07/08/21 14:30
Matrix: Solid
Date Received: 07/08/21 15:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5016	07/10/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5061	07/11/21 18:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5077	07/12/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5065	07/13/21 04:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5011	07/09/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5102	07/14/21 20:29	CH	XEN MID

Client Sample ID: WSW #6 @4
Lab Sample ID: 890-911-4
Date Collected: 07/08/21 14:30
Matrix: Solid
Date Received: 07/08/21 15:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5016	07/10/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5061	07/11/21 18:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5077	07/12/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5065	07/13/21 04:40	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5011	07/09/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5102	07/14/21 20:34	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-911-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: ESW #5 @5
Lab Sample ID: 890-911-5

Date Collected: 07/08/21 14:30
Matrix: Solid

Date Received: 07/08/21 15:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5016	07/10/21 10:35	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5061	07/11/21 18:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5077	07/12/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5065	07/13/21 05:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5011	07/09/21 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			5102	07/14/21 20:40	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-911-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
SDG: 13714

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-911-1	FL # 24 @ 5	Solid	07/08/21 14:30	07/08/21 15:32	
890-911-2	FL #23 @4	Solid	07/08/21 14:30	07/08/21 15:32	
890-911-3	FL #26 @ 4	Solid	07/08/21 14:30	07/08/21 15:32	
890-911-4	WSW #6 @4	Solid	07/08/21 14:30	07/08/21 15:32	
890-911-5	ESW #5 @5	Solid	07/08/21 14:30	07/08/21 15:32	

Page 673 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/o Rob Kirk 469-928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	23.8/23.6	Thermometer ID	
Received Intact:	(Yes) No		TNM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	9

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
FL #24 @ 5'	Soil	7/8/21	2:30 PM		1	X	X	X	
FL #23 @ 4'	Soil	7/8/21	2:30 PM		1	X	X	X	
FL #16 @ 4'	Soil	7/8/21	2:30 PM		1	X	X	X	
WSW #6 @ 4'	Soil	7/8/21	2:30 PM		1	X	X	X	
ESW #5 @ 5'	Soil	7/8/21	2:30 PM		1	X	X	X	

890-911 Chain of Custody

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA ~~Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U~~ 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7-8-21 1532	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-293 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-911-1
Address: 1211 W Florida Ave	Due Date Requested: 7/14/2021	Analysis Requested		Preservation Codes
City: Midland	TAT Requested (days):			A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other:
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Marathon Kyle to Willow	Project #: 88000073			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc Mid - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
FL # 24 @ 5 (890-911-1)	7/8/21	14 30 Mountain		Solid			X	X	X	1	
FL #23 @4 (890-911-2)	7/8/21	14 30 Mountain		Solid			X	X	X	1	
FL #26 @ 4 (890-911-3)	7/8/21	14 30 Mountain		Solid			X	X	X	1	
WSW #6 @4 (890-911-4)	7/8/21	14 30 Mountain		Solid			X	X	X	1	
ESW #5 @5 (890-911-5)	7/8/21	14 30 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Close Cuff 7.9.21	Date/Time:	Company	Received by	Date/Time: 7-12-21 10:00am	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 11/01/2020

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM
7/15/2021
Page 22 of 24

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-911-1
SDG Number: 13714

Login Number: 911
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-911-1
SDG Number: 13714

Login Number: 911
List Number: 2
Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland
List Creation: 07/10/21 03:00 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-919-1
Laboratory Sample Delivery Group: 13914
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

JKramer

Authorized for release by:
7/16/2021 7:37:56 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 16
QC Sample Results 18
QC Association Summary 24
Lab Chronicle 28
Certification Summary 32
Method Summary 33
Sample Summary 34
Chain of Custody 35
Receipt Checklists 37

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-919-1
Project/Site: Marathon Kyle to Willow SDG: 13914

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Job ID: 890-919-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-919-1

Comments
No additional comments.

Receipt
The samples were received on 7/9/2021 3:21 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.0º C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: ESW #8 @4 (890-919-1), ESW #7 @4 (890-919-2), FL #29 @4 (890-919-3), WSW #10 @ 4 (890-919-4), ESW # 6 @ 4 (890-919-5), FL #28 @4 (890-919-6), FL #30 @4 (890-919-7), FL #32 @4 (890-919-8), FL # 27@ 4 (890-919-9), FL #31 @4 (890-919-10), WSW #9 @4 (890-919-11), WSW #8 @4 (890-919-12), WSW #11 @4 (890-919-13), FL # 25@ 4 (890-919-14), WSW #12 @4 (890-919-15) and WSW #7 @ 4 (890-919-16).

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-5137 and analytical batch 880-5260 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10. Both the LCS/LCSD met an acceptable passing criteria, and the MS/MSD was fully compliant providing qualification for the data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: ESW #8 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/13/21 14:47	07/14/21 02:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/21 14:47	07/14/21 02:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/21 14:47	07/14/21 02:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/21 14:47	07/14/21 02:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/21 14:47	07/14/21 02:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/21 14:47	07/14/21 02:19	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/13/21 14:47	07/14/21 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*07/13/21 14:47*	*07/14/21 02:19*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/13/21 14:47*	*07/14/21 02:19*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 10:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 10:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 10:25	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/14/21 08:51*	*07/16/21 10:25*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/14/21 08:51*	*07/16/21 10:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**102**		4.95		mg/Kg			07/14/21 22:05	1

Client Sample ID: ESW #7 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/13/21 14:47	07/14/21 02:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/21 14:47	07/14/21 02:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/21 14:47	07/14/21 02:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/21 14:47	07/14/21 02:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/21 14:47	07/14/21 02:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/21 14:47	07/14/21 02:40	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/13/21 14:47	07/14/21 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*07/13/21 14:47*	*07/14/21 02:40*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*07/13/21 14:47*	*07/14/21 02:40*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		07/14/21 08:51	07/16/21 11:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: ESW #7 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-2
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 08:51	07/16/21 11:28	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 08:51	07/16/21 11:28	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 08:51	07/16/21 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/14/21 08:51*	*07/16/21 11:28*	*1*
o-Terphenyl	*120*		*70 - 130*	*07/14/21 08:51*	*07/16/21 11:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**122**		5.03		mg/Kg			07/14/21 22:10	1

Client Sample ID: FL #29 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 05:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 05:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 05:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 05:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 05:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 05:45	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 05:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/13/21 15:08*	*07/14/21 05:45*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/13/21 15:08*	*07/14/21 05:45*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 11:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 11:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 11:49	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/14/21 08:51*	*07/16/21 11:49*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/14/21 08:51*	*07/16/21 11:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**311**		5.04		mg/Kg			07/14/21 22:16	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: WSW #10 @ 4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 06:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 06:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 06:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 06:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 06:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 06:05	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 06:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/13/21 15:08*	*07/14/21 06:05*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/13/21 15:08*	*07/14/21 06:05*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 12:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 12:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 12:10	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/14/21 08:51*	*07/16/21 12:10*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/14/21 08:51*	*07/16/21 12:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**451**		5.05		mg/Kg			07/14/21 22:32	1

Client Sample ID: ESW # 6 @ 4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 06:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 06:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 06:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/13/21 15:08	07/14/21 06:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 06:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/13/21 15:08	07/14/21 06:25	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/13/21 15:08	07/14/21 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*07/13/21 15:08*	*07/14/21 06:25*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/13/21 15:08*	*07/14/21 06:25*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		07/14/21 08:51	07/16/21 12:32	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: ESW # 6 @ 4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-5

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 08:51	07/16/21 12:32	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 08:51	07/16/21 12:32	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 08:51	07/16/21 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/14/21 08:51*	*07/16/21 12:32*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/14/21 08:51*	*07/16/21 12:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**305**		5.01		mg/Kg			07/14/21 22:38	1

Client Sample ID: FL #28 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 06:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 06:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 06:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 06:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 06:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 06:46	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 06:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/13/21 15:08*	*07/14/21 06:46*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/13/21 15:08*	*07/14/21 06:46*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		07/14/21 08:51	07/16/21 12:53	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/14/21 08:51	07/16/21 12:53	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/14/21 08:51	07/16/21 12:53	1
Total TPH	<49.7	U	49.7		mg/Kg		07/14/21 08:51	07/16/21 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/14/21 08:51*	*07/16/21 12:53*	*1*
o-Terphenyl	*115*		*70 - 130*	*07/14/21 08:51*	*07/16/21 12:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.1**		5.02		mg/Kg			07/14/21 22:44	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: FL #30 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-7

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 07:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 07:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 07:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 07:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 07:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 07:06	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/13/21 15:08*	*07/14/21 07:06*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/13/21 15:08*	*07/14/21 07:06*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		07/14/21 08:51	07/16/21 13:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 13:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 13:14	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/14/21 08:51*	*07/16/21 13:14*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/14/21 08:51*	*07/16/21 13:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.3**		5.01		mg/Kg			07/15/21 11:05	1

Client Sample ID: FL #32 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-8

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/13/21 15:08	07/14/21 07:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/13/21 15:08	07/14/21 07:27	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/13/21 15:08	07/14/21 07:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/13/21 15:08*	*07/14/21 07:27*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/13/21 15:08*	*07/14/21 07:27*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:36	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: FL #32 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-8

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:36	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/14/21 08:51*	*07/16/21 13:36*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/14/21 08:51*	*07/16/21 13:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			07/15/21 11:11	1

Client Sample ID: FL # 27@ 4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-9

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 07:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 07:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 07:47	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 07:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/13/21 15:08*	*07/14/21 07:47*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/13/21 15:08*	*07/14/21 07:47*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:57	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*07/14/21 08:51*	*07/16/21 13:57*	*1*
o-Terphenyl	*104*		*70 - 130*	*07/14/21 08:51*	*07/16/21 13:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**368**		4.97		mg/Kg			07/14/21 23:00	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: FL #31 @4

Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 08:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 08:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 08:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 08:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 08:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 08:07	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 08:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*07/13/21 15:08*	*07/14/21 08:07*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/13/21 15:08*	*07/14/21 08:07*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		07/14/21 08:51	07/16/21 14:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 14:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 14:18	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/14/21 08:51*	*07/16/21 14:18*	*1*
o-Terphenyl	*105*		*70 - 130*	*07/14/21 08:51*	*07/16/21 14:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.5**		4.95		mg/Kg			07/15/21 11:16	1

Client Sample ID: WSW #9 @4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-11

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 08:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 08:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 08:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 08:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 08:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 08:28	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 08:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/13/21 15:08*	*07/14/21 08:28*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/13/21 15:08*	*07/14/21 08:28*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: WSW #9 @4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-11

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:01	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:01	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/14/21 08:51*	*07/16/21 15:01*	*1*
o-Terphenyl	*118*		*70 - 130*	*07/14/21 08:51*	*07/16/21 15:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**262**		4.97		mg/Kg			07/14/21 23:22	1

Client Sample ID: WSW #8 @4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-12

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 08:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 08:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 08:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 08:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 08:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 08:48	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 08:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/13/21 15:08*	*07/14/21 08:48*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/13/21 15:08*	*07/14/21 08:48*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:22	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*07/14/21 08:51*	*07/16/21 15:22*	*1*
o-Terphenyl	*117*		*70 - 130*	*07/14/21 08:51*	*07/16/21 15:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.4**		4.95		mg/Kg			07/14/21 23:38	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: WSW #11 @4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 10:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 10:09	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 10:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*07/13/21 15:08*	*07/14/21 10:09*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/13/21 15:08*	*07/14/21 10:09*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		07/14/21 08:51	07/16/21 15:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 15:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 15:43	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*07/14/21 08:51*	*07/16/21 15:43*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/14/21 08:51*	*07/16/21 15:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.7**		4.99		mg/Kg			07/14/21 23:44	1

Client Sample ID: FL # 25@ 4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 10:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 10:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 10:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 10:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/13/21 15:08	07/14/21 10:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 10:30	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/13/21 15:08	07/14/21 10:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/13/21 15:08*	*07/14/21 10:30*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/13/21 15:08*	*07/14/21 10:30*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:04	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: FL # 25@ 4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-14
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:04	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/14/21 08:51*	*07/16/21 16:04*	*1*
o-Terphenyl	*113*		*70 - 130*	*07/14/21 08:51*	*07/16/21 16:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**375**		5.02		mg/Kg			07/14/21 23:49	1

Client Sample ID: WSW #12 @4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-15
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 10:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 10:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 10:50	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 10:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/13/21 15:08*	*07/14/21 10:50*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/13/21 15:08*	*07/14/21 10:50*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:26	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 08:51	07/16/21 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*07/14/21 08:51*	*07/16/21 16:26*	*1*
o-Terphenyl	*106*		*70 - 130*	*07/14/21 08:51*	*07/16/21 16:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**358**		4.99		mg/Kg			07/15/21 11:22	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: WSW #7 @ 4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-16

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 11:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 11:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 11:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 11:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/13/21 15:08	07/14/21 11:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 11:11	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/13/21 15:08	07/14/21 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/13/21 15:08*	*07/14/21 11:11*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/13/21 15:08*	*07/14/21 11:11*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		07/14/21 08:51	07/16/21 16:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 16:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 16:47	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*07/14/21 08:51*	*07/16/21 16:47*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/14/21 08:51*	*07/16/21 16:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.53**		4.99		mg/Kg			07/15/21 09:21	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-919-1	ESW #8 @4	121	97
890-919-2	ESW #7 @4	140 S1+	120
890-919-3	FL #29 @4	91	89
890-919-3 MS	FL #29 @4	117	102
890-919-3 MSD	FL #29 @4	107	101
890-919-4	WSW #10 @ 4	101	88
890-919-5	ESW # 6 @ 4	79	93
890-919-6	FL #28 @4	105	91
890-919-7	FL #30 @4	91	92
890-919-8	FL #32 @4	97	92
890-919-9	FL # 27@ 4	96	91
890-919-10	FL #31 @4	100	90
890-919-11	WSW #9 @4	101	89
890-919-12	WSW #8 @4	99	90
890-919-13	WSW #11 @4	90	93
890-919-14	FL # 25@ 4	97	90
890-919-15	WSW #12 @4	96	92
890-919-16	WSW #7 @ 4	98	88
LCS 880-5106/1-A	Lab Control Sample	103	102
LCS 880-5112/1-A	Lab Control Sample	103	104
LCSD 880-5106/2-A	Lab Control Sample Dup	97	96
LCSD 880-5112/2-A	Lab Control Sample Dup	109	103
MB 880-5070/5-A	Method Blank	99	85
MB 880-5106/5-A	Method Blank	114	79
MB 880-5112/5-A	Method Blank	79	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-919-1	ESW #8 @4	101	119
890-919-1 MS	ESW #8 @4	95	95
890-919-1 MSD	ESW #8 @4	96	97
890-919-2	ESW #7 @4	103	120
890-919-3	FL #29 @4	82	99
890-919-4	WSW #10 @ 4	92	107
890-919-5	ESW # 6 @ 4	87	99
890-919-6	FL #28 @4	101	115
890-919-7	FL #30 @4	98	111
890-919-8	FL #32 @4	94	109
890-919-9	FL # 27@ 4	89	104
890-919-10	FL #31 @4	92	105
890-919-11	WSW #9 @4	102	118
890-919-12	WSW #8 @4	100	117

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-919-1
Project/Site: Marathon Kyle to Willow SDG: 13914

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-919-13	WSW #11 @4	96	111								
890-919-14	FL # 25@ 4	98	113								
890-919-15	WSW #12 @4	95	106								
890-919-16	WSW #7 @ 4	91	107								
LCS 880-5137/2-A	Lab Control Sample	114	121								
LCSD 880-5137/3-A	Lab Control Sample Dup	114	118								
MB 880-5137/1-A	Method Blank	94	111								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5070/5-A
Matrix: Solid
Analysis Batch: 5115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/12/21 09:28	07/13/21 18:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/12/21 09:28	07/13/21 18:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/12/21 09:28	07/13/21 18:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/12/21 09:28	07/13/21 18:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/12/21 09:28	07/13/21 18:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/12/21 09:28	07/13/21 18:34	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/12/21 09:28	07/13/21 18:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/12/21 09:28*	*07/13/21 18:34*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*07/12/21 09:28*	*07/13/21 18:34*	*1*

Lab Sample ID: MB 880-5106/5-A
Matrix: Solid
Analysis Batch: 5114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/13/21 14:47	07/13/21 18:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/13/21 14:47	07/13/21 18:49	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/13/21 14:47	07/13/21 18:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/13/21 14:47*	*07/13/21 18:49*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*07/13/21 14:47*	*07/13/21 18:49*	*1*

Lab Sample ID: LCS 880-5106/1-A
Matrix: Solid
Analysis Batch: 5114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1085		mg/Kg		108	70 - 130
Toluene	0.100	0.09935		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1090		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2084		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-5106/2-A
Matrix: Solid
Analysis Batch: 5114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5106

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09710		mg/Kg		97	70 - 130	11	35
Toluene			0.100	0.08499		mg/Kg		85	70 - 130	16	35
Ethylbenzene			0.100	0.08832		mg/Kg		88	70 - 130	21	35
m-Xylene & p-Xylene			0.200	0.1804		mg/Kg		90	70 - 130	14	35
o-Xylene			0.100	0.08676		mg/Kg		87	70 - 130	15	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 880-5112/5-A
Matrix: Solid
Analysis Batch: 5115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 05:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 05:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 05:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 05:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/21 15:08	07/14/21 05:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 05:23	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/13/21 15:08	07/14/21 05:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*07/13/21 15:08*	*07/14/21 05:23*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/13/21 15:08*	*07/14/21 05:23*	*1*

Lab Sample ID: LCS 880-5112/1-A
Matrix: Solid
Analysis Batch: 5115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5112

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			0.100	0.09660		mg/Kg		97	70 - 130
Toluene			0.100	0.09183		mg/Kg		92	70 - 130
Ethylbenzene			0.100	0.09213		mg/Kg		92	70 - 130
m-Xylene & p-Xylene			0.200	0.1889		mg/Kg		94	70 - 130
o-Xylene			0.100	0.09527		mg/Kg		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-5112/2-A
Matrix: Solid
Analysis Batch: 5115

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5112

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09888		mg/Kg		99	70 - 130	2	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-5112/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 5115 — **Prep Batch: 5112**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.09345		mg/Kg		93	70 - 130	2	35
Ethylbenzene			0.100	0.09505		mg/Kg		95	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1941		mg/Kg		97	70 - 130	3	35
o-Xylene			0.100	0.09913		mg/Kg		99	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-919-3 MS — **Client Sample ID: FL #29 @4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 5115 — **Prep Batch: 5112**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U	0.100	0.07663		mg/Kg		76	70 - 130
Toluene	<0.00201	U	0.100	0.07507		mg/Kg		75	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.07564		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1542		mg/Kg		77	70 - 130
o-Xylene	<0.00201	U	0.100	0.07798		mg/Kg		78	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-919-3 MSD — **Client Sample ID: FL #29 @4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 5115 — **Prep Batch: 5112**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.101	0.08057		mg/Kg		80	70 - 130	5	35
Toluene	<0.00201	U	0.101	0.07760		mg/Kg		77	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.101	0.07728		mg/Kg		77	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1568		mg/Kg		78	70 - 130	2	35
o-Xylene	<0.00201	U	0.101	0.07841		mg/Kg		78	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-5137/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 5260 — **Prep Batch: 5137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 09:22	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-5137/1-A
Matrix: Solid
Analysis Batch: 5260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 09:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 09:22	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 09:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/14/21 08:51*	*07/16/21 09:22*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/14/21 08:51*	*07/16/21 09:22*	*1*

Lab Sample ID: LCS 880-5137/2-A
Matrix: Solid
Analysis Batch: 5260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5137

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1258		mg/Kg		126	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1128		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*121*		*70 - 130*

Lab Sample ID: LCSD 880-5137/3-A
Matrix: Solid
Analysis Batch: 5260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5137

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	916.5	*1	mg/Kg		92	70 - 130	31	20
Diesel Range Organics (Over C10-C28)			1000	1100		mg/Kg		110	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*118*		*70 - 130*

Lab Sample ID: 890-919-1 MS
Matrix: Solid
Analysis Batch: 5260

Client Sample ID: ESW #8 @4
Prep Type: Total/NA
Prep Batch: 5137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	996	826.2		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1067		mg/Kg		107	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-919-1 MS
Matrix: Solid
Analysis Batch: 5260

Client Sample ID: ESW #8 @4
Prep Type: Total/NA
Prep Batch: 5137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: 890-919-1 MSD
Matrix: Solid
Analysis Batch: 5260

Client Sample ID: ESW #8 @4
Prep Type: Total/NA
Prep Batch: 5137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	996	908.1		mg/Kg		89	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1116		mg/Kg		112	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5080/1-A
Matrix: Solid
Analysis Batch: 5204

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/14/21 21:27	1

Lab Sample ID: LCS 880-5080/2-A
Matrix: Solid
Analysis Batch: 5204

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	258.9		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-5080/3-A
Matrix: Solid
Analysis Batch: 5204

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	259.2		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-919-9 MS
Matrix: Solid
Analysis Batch: 5204

Client Sample ID: FL # 27@ 4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	368		249	622.4		mg/Kg		102	90 - 110		

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-919-9 MSD
Matrix: Solid
Analysis Batch: 5204

Client Sample ID: FL # 27@ 4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	368		249	615.3		mg/Kg		100	90 - 110	1	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

GC VOA

Prep Batch: 5070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5070/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 5106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-1	ESW #8 @4	Total/NA	Solid	5035	
890-919-2	ESW #7 @4	Total/NA	Solid	5035	
MB 880-5106/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5106/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5106/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 5112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-3	FL #29 @4	Total/NA	Solid	5035	
890-919-4	WSW #10 @ 4	Total/NA	Solid	5035	
890-919-5	ESW # 6 @ 4	Total/NA	Solid	5035	
890-919-6	FL #28 @4	Total/NA	Solid	5035	
890-919-7	FL #30 @4	Total/NA	Solid	5035	
890-919-8	FL #32 @4	Total/NA	Solid	5035	
890-919-9	FL # 27@ 4	Total/NA	Solid	5035	
890-919-10	FL #31 @4	Total/NA	Solid	5035	
890-919-11	WSW #9 @4	Total/NA	Solid	5035	
890-919-12	WSW #8 @4	Total/NA	Solid	5035	
890-919-13	WSW #11 @4	Total/NA	Solid	5035	
890-919-14	FL # 25@ 4	Total/NA	Solid	5035	
890-919-15	WSW #12 @4	Total/NA	Solid	5035	
890-919-16	WSW #7 @ 4	Total/NA	Solid	5035	
MB 880-5112/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5112/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5112/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-919-3 MS	FL #29 @4	Total/NA	Solid	5035	
890-919-3 MSD	FL #29 @4	Total/NA	Solid	5035	

Analysis Batch: 5114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-1	ESW #8 @4	Total/NA	Solid	8021B	5106
890-919-2	ESW #7 @4	Total/NA	Solid	8021B	5106
MB 880-5106/5-A	Method Blank	Total/NA	Solid	8021B	5106
LCS 880-5106/1-A	Lab Control Sample	Total/NA	Solid	8021B	5106
LCSD 880-5106/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5106

Analysis Batch: 5115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-3	FL #29 @4	Total/NA	Solid	8021B	5112
890-919-4	WSW #10 @ 4	Total/NA	Solid	8021B	5112
890-919-5	ESW # 6 @ 4	Total/NA	Solid	8021B	5112
890-919-6	FL #28 @4	Total/NA	Solid	8021B	5112
890-919-7	FL #30 @4	Total/NA	Solid	8021B	5112
890-919-8	FL #32 @4	Total/NA	Solid	8021B	5112
890-919-9	FL # 27@ 4	Total/NA	Solid	8021B	5112
890-919-10	FL #31 @4	Total/NA	Solid	8021B	5112
890-919-11	WSW #9 @4	Total/NA	Solid	8021B	5112

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

GC VOA (Continued)

Analysis Batch: 5115 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-12	WSW #8 @4	Total/NA	Solid	8021B	5112
890-919-13	WSW #11 @4	Total/NA	Solid	8021B	5112
890-919-14	FL # 25@ 4	Total/NA	Solid	8021B	5112
890-919-15	WSW #12 @4	Total/NA	Solid	8021B	5112
890-919-16	WSW #7 @ 4	Total/NA	Solid	8021B	5112
MB 880-5070/5-A	Method Blank	Total/NA	Solid	8021B	5070
MB 880-5112/5-A	Method Blank	Total/NA	Solid	8021B	5112
LCS 880-5112/1-A	Lab Control Sample	Total/NA	Solid	8021B	5112
LCSD 880-5112/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5112
890-919-3 MS	FL #29 @4	Total/NA	Solid	8021B	5112
890-919-3 MSD	FL #29 @4	Total/NA	Solid	8021B	5112

GC Semi VOA

Prep Batch: 5137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-1	ESW #8 @4	Total/NA	Solid	8015NM Prep	
890-919-2	ESW #7 @4	Total/NA	Solid	8015NM Prep	
890-919-3	FL #29 @4	Total/NA	Solid	8015NM Prep	
890-919-4	WSW #10 @ 4	Total/NA	Solid	8015NM Prep	
890-919-5	ESW # 6 @ 4	Total/NA	Solid	8015NM Prep	
890-919-6	FL #28 @4	Total/NA	Solid	8015NM Prep	
890-919-7	FL #30 @4	Total/NA	Solid	8015NM Prep	
890-919-8	FL #32 @4	Total/NA	Solid	8015NM Prep	
890-919-9	FL # 27@ 4	Total/NA	Solid	8015NM Prep	
890-919-10	FL #31 @4	Total/NA	Solid	8015NM Prep	
890-919-11	WSW #9 @4	Total/NA	Solid	8015NM Prep	
890-919-12	WSW #8 @4	Total/NA	Solid	8015NM Prep	
890-919-13	WSW #11 @4	Total/NA	Solid	8015NM Prep	
890-919-14	FL # 25@ 4	Total/NA	Solid	8015NM Prep	
890-919-15	WSW #12 @4	Total/NA	Solid	8015NM Prep	
890-919-16	WSW #7 @ 4	Total/NA	Solid	8015NM Prep	
MB 880-5137/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5137/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5137/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-919-1 MS	ESW #8 @4	Total/NA	Solid	8015NM Prep	
890-919-1 MSD	ESW #8 @4	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-1	ESW #8 @4	Total/NA	Solid	8015B NM	5137
890-919-2	ESW #7 @4	Total/NA	Solid	8015B NM	5137
890-919-3	FL #29 @4	Total/NA	Solid	8015B NM	5137
890-919-4	WSW #10 @ 4	Total/NA	Solid	8015B NM	5137
890-919-5	ESW # 6 @ 4	Total/NA	Solid	8015B NM	5137
890-919-6	FL #28 @4	Total/NA	Solid	8015B NM	5137
890-919-7	FL #30 @4	Total/NA	Solid	8015B NM	5137
890-919-8	FL #32 @4	Total/NA	Solid	8015B NM	5137
890-919-9	FL # 27@ 4	Total/NA	Solid	8015B NM	5137
890-919-10	FL #31 @4	Total/NA	Solid	8015B NM	5137
890-919-11	WSW #9 @4	Total/NA	Solid	8015B NM	5137

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

GC Semi VOA (Continued)

Analysis Batch: 5260 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-12	WSW #8 @4	Total/NA	Solid	8015B NM	5137
890-919-13	WSW #11 @4	Total/NA	Solid	8015B NM	5137
890-919-14	FL # 25@ 4	Total/NA	Solid	8015B NM	5137
890-919-15	WSW #12 @4	Total/NA	Solid	8015B NM	5137
890-919-16	WSW #7 @ 4	Total/NA	Solid	8015B NM	5137
MB 880-5137/1-A	Method Blank	Total/NA	Solid	8015B NM	5137
LCS 880-5137/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5137
LCSD 880-5137/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5137
890-919-1 MS	ESW #8 @4	Total/NA	Solid	8015B NM	5137
890-919-1 MSD	ESW #8 @4	Total/NA	Solid	8015B NM	5137

HPLC/IC

Leach Batch: 5080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-1	ESW #8 @4	Soluble	Solid	DI Leach	
890-919-2	ESW #7 @4	Soluble	Solid	DI Leach	
890-919-3	FL #29 @4	Soluble	Solid	DI Leach	
890-919-4	WSW #10 @ 4	Soluble	Solid	DI Leach	
890-919-5	ESW # 6 @ 4	Soluble	Solid	DI Leach	
890-919-6	FL #28 @4	Soluble	Solid	DI Leach	
890-919-7	FL #30 @4	Soluble	Solid	DI Leach	
890-919-8	FL #32 @4	Soluble	Solid	DI Leach	
890-919-9	FL # 27@ 4	Soluble	Solid	DI Leach	
890-919-10	FL #31 @4	Soluble	Solid	DI Leach	
890-919-11	WSW #9 @4	Soluble	Solid	DI Leach	
890-919-12	WSW #8 @4	Soluble	Solid	DI Leach	
890-919-13	WSW #11 @4	Soluble	Solid	DI Leach	
890-919-14	FL # 25@ 4	Soluble	Solid	DI Leach	
890-919-15	WSW #12 @4	Soluble	Solid	DI Leach	
890-919-16	WSW #7 @ 4	Soluble	Solid	DI Leach	
MB 880-5080/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5080/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5080/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-919-9 MS	FL # 27@ 4	Soluble	Solid	DI Leach	
890-919-9 MSD	FL # 27@ 4	Soluble	Solid	DI Leach	

Analysis Batch: 5204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-1	ESW #8 @4	Soluble	Solid	300.0	5080
890-919-2	ESW #7 @4	Soluble	Solid	300.0	5080
890-919-3	FL #29 @4	Soluble	Solid	300.0	5080
890-919-4	WSW #10 @ 4	Soluble	Solid	300.0	5080
890-919-5	ESW # 6 @ 4	Soluble	Solid	300.0	5080
890-919-6	FL #28 @4	Soluble	Solid	300.0	5080
890-919-7	FL #30 @4	Soluble	Solid	300.0	5080
890-919-8	FL #32 @4	Soluble	Solid	300.0	5080
890-919-9	FL # 27@ 4	Soluble	Solid	300.0	5080
890-919-10	FL #31 @4	Soluble	Solid	300.0	5080
890-919-11	WSW #9 @4	Soluble	Solid	300.0	5080
890-919-12	WSW #8 @4	Soluble	Solid	300.0	5080

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

HPLC/IC (Continued)

Analysis Batch: 5204 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-919-13	WSW #11 @4	Soluble	Solid	300.0	5080
890-919-14	FL # 25@ 4	Soluble	Solid	300.0	5080
890-919-15	WSW #12 @4	Soluble	Solid	300.0	5080
890-919-16	WSW #7 @ 4	Soluble	Solid	300.0	5080
MB 880-5080/1-A	Method Blank	Soluble	Solid	300.0	5080
LCS 880-5080/2-A	Lab Control Sample	Soluble	Solid	300.0	5080
LCSD 880-5080/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5080
890-919-9 MS	FL # 27@ 4	Soluble	Solid	300.0	5080
890-919-9 MSD	FL # 27@ 4	Soluble	Solid	300.0	5080

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: ESW #8 @4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5106	07/13/21 14:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5114	07/14/21 02:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 10:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 22:05	CH	XEN MID

Client Sample ID: ESW #7 @4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5106	07/13/21 14:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5114	07/14/21 02:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 11:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 22:10	CH	XEN MID

Client Sample ID: FL #29 @4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 05:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 11:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 22:16	CH	XEN MID

Client Sample ID: WSW #10 @ 4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 06:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 12:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 22:32	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: ESW # 6 @ 4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 06:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 12:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 22:38	CH	XEN MID

Client Sample ID: FL #28 @4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 06:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 12:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 22:44	CH	XEN MID

Client Sample ID: FL #30 @4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 07:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 13:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/15/21 11:05	CH	XEN MID

Client Sample ID: FL #32 @4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 07:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 13:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/15/21 11:11	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: FL # 27@ 4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 07:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 13:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 23:00	CH	XEN MID

Client Sample ID: FL #31 @4
Date Collected: 07/09/21 13:00
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 08:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 14:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/15/21 11:16	CH	XEN MID

Client Sample ID: WSW #9 @4
Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 08:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 15:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 23:22	CH	XEN MID

Client Sample ID: WSW #8 @4
Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 08:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 15:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 23:38	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Client Sample ID: WSW #11 @4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 10:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 15:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 23:44	CH	XEN MID

Client Sample ID: FL # 25@ 4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 10:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 16:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/14/21 23:49	CH	XEN MID

Client Sample ID: WSW #12 @4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 10:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 16:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/15/21 11:22	CH	XEN MID

Client Sample ID: WSW #7 @ 4

Date Collected: 07/09/21 13:30
Date Received: 07/09/21 15:21

Lab Sample ID: 890-919-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5112	07/13/21 15:08	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5115	07/14/21 11:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 16:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5080	07/12/21 10:19	CH	XEN MID
Soluble	Analysis	300.0		1			5204	07/15/21 09:21	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-919-1
Project/Site: Marathon Kyle to Willow
SDG: 13914

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
SDG: 13914

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-919-1	ESW #8 @4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-2	ESW #7 @4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-3	FL #29 @4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-4	WSW #10 @ 4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-5	ESW # 6 @ 4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-6	FL #28 @4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-7	FL #30 @4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-8	FL #32 @4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-9	FL # 27@ 4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-10	FL #31 @4	Solid	07/09/21 13:00	07/09/21 15:21	
890-919-11	WSW #9 @4	Solid	07/09/21 13:30	07/09/21 15:21	
890-919-12	WSW #8 @4	Solid	07/09/21 13:30	07/09/21 15:21	
890-919-13	WSW #11 @4	Solid	07/09/21 13:30	07/09/21 15:21	
890-919-14	FL # 25@ 4	Solid	07/09/21 13:30	07/09/21 15:21	
890-919-15	WSW #12 @4	Solid	07/09/21 13:30	07/09/21 15:21	
890-919-16	WSW #7 @ 4	Solid	07/09/21 13:30	07/09/21 15:21	

Page 711 of 812

Chain of Custody

XENCO LABORATORIES

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris c/o Rob Kirk (469)928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13914	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	8.2/F.C	Thermometer ID	NM-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
CSW #8 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
CSW #7 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
FL #29 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
WSW #10 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
CSW #6 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
FL #28 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
FL #30 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
FL #32 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
FL #27 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	
FL #31 @ 4'	Soil	7-9-21	1:00 PM		1	X	X	X	

890-919 Chain of Custody

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7.9.21 1521	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Page 712 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris c/o Rob Kirk (469) 928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/US ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
WSW #9 @ 4'	Soil	7-9-21	1:30 PM		1	X	X	X		
WSW #8 @ 4'	Soil	7-9-21	1:30 pm		1	X	X	X		
WSW # 11 @ 4'	Soil	7-9-21	1:30 pm		1	X	X	X		
FL # 25 @ 4'	Soil	7-9-21	1:30 pm		1	X	X	X		
WSW # 12 @ 4'	Soil	7-9-21	1:30 pm		1	X	X	X		
WSW # 7 @ 4'	Soil	7-9-21	1:30 pm		1	X	X	X		
	~~Soil~~	~~7-9-21~~	~~1:30 PM~~		1	X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U~~ **1631 / 245.1 / 7470 / 7471 : Hg**

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7-9-21 1521	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

7/16/2021

Page 36 of 38

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-919-1
SDG Number: 13914

Login Number: 919
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-919-1
SDG Number: 13914

Login Number: 919
List Number: 2
Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland
List Creation: 07/13/21 02:49 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-940-1
Laboratory Sample Delivery Group: 13714
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: Joel Lowry

JKramer

Authorized for release by:
7/15/2021 9:04:17 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Laboratory Job ID: 890-940-1
SDG: 13714

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 35
QC Sample Results 38
QC Association Summary 49
Lab Chronicle 58
Certification Summary 70
Method Summary 71
Sample Summary 72
Chain of Custody 73
Receipt Checklists 81

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Job ID: 890-940-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-940-1

Comments
No additional comments.

Receipt
The samples were received on 7/13/2021 3:39 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.3º C.

Receipt Exceptions

The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): <&commaMerge&
Sample received lid says: SSW#4 @4 7-13-21 Marathon Kyle to Willow

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: FL#49@9 (890-940-37). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: WSW#20@4 (890-940-8), ESW#15@7 (890-940-19) and ESW#16@9 (890-940-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-5145 and analytical batch 880-5206 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: WSW#13@4

Lab Sample ID: 890-940-1
Matrix: Solid
Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 17:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 17:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 17:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:16	07/14/21 17:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 17:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:16	07/14/21 17:57	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:16	07/14/21 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/14/21 09:16*	*07/14/21 17:57*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*07/14/21 09:16*	*07/14/21 17:57*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 23:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 23:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 23:57	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/14/21 15:14*	*07/14/21 23:57*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/14/21 15:14*	*07/14/21 23:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**459**		5.00		mg/Kg			07/15/21 07:46	1

Client Sample ID: WSW#14@4

Lab Sample ID: 890-940-2
Matrix: Solid
Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 18:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 18:18	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/14/21 09:16*	*07/14/21 18:18*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/14/21 09:16*	*07/14/21 18:18*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 00:59	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: WSW#14@4

Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-2

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 00:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 00:59	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/14/21 15:14*	*07/15/21 00:59*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/14/21 15:14*	*07/15/21 00:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**495**		4.97		mg/Kg			07/15/21 08:02	1

Client Sample ID: WSW#15@4

Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 18:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 18:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 18:39	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/14/21 09:16*	*07/14/21 18:39*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/14/21 09:16*	*07/14/21 18:39*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:19	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/14/21 15:14*	*07/15/21 01:19*	*1*
o-Terphenyl	*125*		*70 - 130*	*07/14/21 15:14*	*07/15/21 01:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**368**		5.01		mg/Kg			07/15/21 08:07	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: WSW#16@4
Lab Sample ID: 890-940-4
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 19:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 19:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 19:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 19:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 19:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 19:00	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/14/21 09:16*	*07/14/21 19:00*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/14/21 09:16*	*07/14/21 19:00*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:40	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*07/14/21 15:14*	*07/15/21 01:40*	*1*
o-Terphenyl	*126*		*70 - 130*	*07/14/21 15:14*	*07/15/21 01:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**121**		5.04		mg/Kg			07/15/21 08:13	1

Client Sample ID: WSW#17@4
Lab Sample ID: 890-940-5
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 19:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 19:20	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/14/21 09:16*	*07/14/21 19:20*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/14/21 09:16*	*07/14/21 19:20*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 02:00	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: WSW#17@4

Lab Sample ID: 890-940-5
Matrix: Solid
Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 02:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 02:00	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 15:14	07/15/21 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*07/14/21 15:14*	*07/15/21 02:00*	*1*
o-Terphenyl	*121*		*70 - 130*	*07/14/21 15:14*	*07/15/21 02:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**398**		5.02		mg/Kg			07/15/21 08:18	1

Client Sample ID: WSW#18@4

Lab Sample ID: 890-940-6
Matrix: Solid
Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/21 09:16	07/14/21 19:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 19:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/21 09:16	07/14/21 19:41	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/14/21 09:16	07/14/21 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/14/21 09:16*	*07/14/21 19:41*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/14/21 09:16*	*07/14/21 19:41*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/14/21 15:14	07/15/21 02:21	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/14/21 15:14	07/15/21 02:21	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/14/21 15:14	07/15/21 02:21	1
Total TPH	<49.7	U	49.7		mg/Kg		07/14/21 15:14	07/15/21 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/14/21 15:14*	*07/15/21 02:21*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/14/21 15:14*	*07/15/21 02:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**409**		4.95		mg/Kg			07/15/21 08:34	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: WSW#19@4
Lab Sample ID: 890-940-7
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/21 09:16	07/14/21 20:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/21 09:16	07/14/21 20:02	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/14/21 09:16	07/14/21 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/14/21 09:16*	*07/14/21 20:02*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/14/21 09:16*	*07/14/21 20:02*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 02:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 02:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 02:42	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/14/21 15:14*	*07/15/21 02:42*	*1*
o-Terphenyl	*121*		*70 - 130*	*07/14/21 15:14*	*07/15/21 02:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**173**		5.02		mg/Kg			07/15/21 08:40	1

Client Sample ID: WSW#20@4
Lab Sample ID: 890-940-8
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 20:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 20:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 20:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 20:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 20:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 20:22	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*07/14/21 09:16*	*07/14/21 20:22*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/14/21 09:16*	*07/14/21 20:22*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:02	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: WSW#20@4

Lab Sample ID: 890-940-8
Matrix: Solid
Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:02	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/14/21 15:14*	*07/15/21 03:02*	*1*
o-Terphenyl	*121*		*70 - 130*	*07/14/21 15:14*	*07/15/21 03:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**215**		4.99		mg/Kg			07/15/21 08:45	1

Client Sample ID: WSW#21@4

Lab Sample ID: 890-940-9
Matrix: Solid
Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 20:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 20:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 20:43	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/14/21 09:16*	*07/14/21 20:43*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/14/21 09:16*	*07/14/21 20:43*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:23	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*07/14/21 15:14*	*07/15/21 03:23*	*1*
o-Terphenyl	*126*		*70 - 130*	*07/14/21 15:14*	*07/15/21 03:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		5.04		mg/Kg			07/15/21 08:50	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: WSW#22@4

Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-10
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 21:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 21:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 21:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 21:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 21:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 21:04	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/14/21 09:16*	*07/14/21 21:04*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/14/21 09:16*	*07/14/21 21:04*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 03:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 03:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 03:43	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/14/21 15:14*	*07/15/21 03:43*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/14/21 15:14*	*07/15/21 03:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**		4.96		mg/Kg			07/15/21 08:56	1

Client Sample ID: WSW#23@4

Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-11
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/14/21 22:27	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/14/21 22:27	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/14/21 22:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/14/21 09:16	07/14/21 22:27	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/14/21 22:27	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/14/21 09:16	07/14/21 22:27	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/14/21 09:16	07/14/21 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/14/21 09:16*	*07/14/21 22:27*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/14/21 09:16*	*07/14/21 22:27*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:25	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: WSW#23@4

Lab Sample ID: 890-940-11
Matrix: Solid
Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:25	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/14/21 15:14*	*07/15/21 04:25*	*1*
o-Terphenyl	*125*		*70 - 130*	*07/14/21 15:14*	*07/15/21 04:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**98.0**		4.98		mg/Kg			07/15/21 09:01	1

Client Sample ID: WSW#24@9

Lab Sample ID: 890-940-12
Matrix: Solid
Date Collected: 07/13/21 10:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 22:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 22:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 22:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:16	07/14/21 22:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:16	07/14/21 22:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:16	07/14/21 22:48	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:16	07/14/21 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*07/14/21 09:16*	*07/14/21 22:48*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/14/21 09:16*	*07/14/21 22:48*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:45	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/14/21 15:14*	*07/15/21 04:45*	*1*
o-Terphenyl	*120*		*70 - 130*	*07/14/21 15:14*	*07/15/21 04:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**142**		4.98		mg/Kg			07/15/21 11:36	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: ESW#9@4

Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 23:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 23:08	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/14/21 09:16*	*07/14/21 23:08*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/14/21 09:16*	*07/14/21 23:08*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:06	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*07/14/21 15:14*	*07/15/21 05:06*	*1*
o-Terphenyl	*129*		*70 - 130*	*07/14/21 15:14*	*07/15/21 05:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73.6**		4.98		mg/Kg			07/15/21 11:41	1

Client Sample ID: ESW#10@4

Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 23:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:16	07/14/21 23:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 23:29	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:16	07/14/21 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*07/14/21 09:16*	*07/14/21 23:29*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*07/14/21 09:16*	*07/14/21 23:29*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:26	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: ESW#10@4

Lab Sample ID: 890-940-14
Matrix: Solid
Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:26	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*07/14/21 15:14*	*07/15/21 05:26*	*1*
o-Terphenyl	*130*		*70 - 130*	*07/14/21 15:14*	*07/15/21 05:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.4**		5.00		mg/Kg			07/15/21 11:58	1

Client Sample ID: ESW#11@4

Lab Sample ID: 890-940-15
Matrix: Solid
Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 23:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 23:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 23:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 23:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 23:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 23:50	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/14/21 09:16*	*07/14/21 23:50*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*07/14/21 09:16*	*07/14/21 23:50*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:47	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 05:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*07/14/21 15:14*	*07/15/21 05:47*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/14/21 15:14*	*07/15/21 05:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**284**		5.00		mg/Kg			07/15/21 12:03	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: ESW#12@4
Lab Sample ID: 890-940-16
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 00:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 00:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 00:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/15/21 00:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 00:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/15/21 00:10	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/15/21 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/14/21 09:16*	*07/15/21 00:10*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/14/21 09:16*	*07/15/21 00:10*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:08	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/14/21 15:14*	*07/15/21 06:08*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/14/21 15:14*	*07/15/21 06:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**187**		5.04		mg/Kg			07/15/21 12:09	1

Client Sample ID: ESW#13@4
Lab Sample ID: 890-940-17
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/15/21 00:31	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/15/21 00:31	1
Ethylbenzene	**0.00316**		0.00198		mg/Kg		07/14/21 09:16	07/15/21 00:31	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/14/21 09:16	07/15/21 00:31	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/15/21 00:31	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/14/21 09:16	07/15/21 00:31	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/14/21 09:16	07/15/21 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*07/14/21 09:16*	*07/15/21 00:31*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/14/21 09:16*	*07/15/21 00:31*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:28	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: ESW#13@4

Lab Sample ID: 890-940-17
Matrix: Solid
Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:28	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 06:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/14/21 15:14*	*07/15/21 06:28*	*1*
o-Terphenyl	*126*		*70 - 130*	*07/14/21 15:14*	*07/15/21 06:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**179**		5.02		mg/Kg			07/15/21 12:14	1

Client Sample ID: ESW#14@4

Lab Sample ID: 890-940-18
Matrix: Solid
Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:16	07/15/21 00:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:16	07/15/21 00:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:16	07/15/21 00:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/14/21 09:16	07/15/21 00:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:16	07/15/21 00:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/14/21 09:16	07/15/21 00:52	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/14/21 09:16	07/15/21 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/14/21 09:16*	*07/15/21 00:52*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*07/14/21 09:16*	*07/15/21 00:52*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 06:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 06:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 06:49	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 06:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*07/14/21 15:14*	*07/15/21 06:49*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*07/14/21 15:14*	*07/15/21 06:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.3**		5.00		mg/Kg			07/15/21 12:19	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: ESW#15@7

Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-19

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 01:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 01:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 01:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/21 09:16	07/15/21 01:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/15/21 01:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/21 09:16	07/15/21 01:12	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/14/21 09:16	07/15/21 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*07/14/21 09:16*	*07/15/21 01:12*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/14/21 09:16*	*07/15/21 01:12*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 07:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 07:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 07:09	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:14	07/15/21 07:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/14/21 15:14*	*07/15/21 07:09*	*1*
o-Terphenyl	*125*		*70 - 130*	*07/14/21 15:14*	*07/15/21 07:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.81**		5.00		mg/Kg			07/15/21 12:25	1

Client Sample ID: ESW#16@9

Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-20

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/15/21 01:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/15/21 01:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/15/21 01:33	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/14/21 09:16	07/15/21 01:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/21 09:16	07/15/21 01:33	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/14/21 09:16	07/15/21 01:33	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/14/21 09:16	07/15/21 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*07/14/21 09:16*	*07/15/21 01:33*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/14/21 09:16*	*07/15/21 01:33*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 07:29	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: ESW#16@9

Lab Sample ID: 890-940-20
Matrix: Solid
Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 07:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 07:29	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/15/21 07:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/14/21 15:14*	*07/15/21 07:29*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/14/21 15:14*	*07/15/21 07:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.2**		5.00		mg/Kg			07/15/21 12:30	1

Client Sample ID: FL#33@4

Lab Sample ID: 890-940-21
Matrix: Solid
Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 17:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 17:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 17:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 17:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 17:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 17:55	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/14/21 09:20*	*07/14/21 17:55*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/14/21 09:20*	*07/14/21 17:55*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		07/14/21 15:29	07/14/21 23:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/14/21 23:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/14/21 23:57	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/14/21 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/14/21 15:29*	*07/14/21 23:57*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/14/21 15:29*	*07/14/21 23:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**133**		4.98		mg/Kg			07/15/21 01:41	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#34@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-22
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 18:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 18:16	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/14/21 09:20*	*07/14/21 18:16*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/14/21 09:20*	*07/14/21 18:16*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 00:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 00:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 00:59	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*07/14/21 15:29*	*07/15/21 00:59*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/14/21 15:29*	*07/15/21 00:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**225**		5.04		mg/Kg			07/15/21 01:57	1

Client Sample ID: FL#35@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-23
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 18:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 18:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 18:36	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/14/21 09:20*	*07/14/21 18:36*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/14/21 09:20*	*07/14/21 18:36*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:19	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#35@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-23
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:19	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/14/21 15:29*	*07/15/21 01:19*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/14/21 15:29*	*07/15/21 01:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**125**		5.00		mg/Kg			07/15/21 02:03	1

Client Sample ID: FL#36@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-24
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 18:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 18:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 18:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/14/21 18:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 18:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/14/21 18:57	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/14/21 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/14/21 09:20*	*07/14/21 18:57*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/14/21 09:20*	*07/14/21 18:57*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:40	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/14/21 15:29*	*07/15/21 01:40*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/14/21 15:29*	*07/15/21 01:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**126**		4.96		mg/Kg			07/15/21 02:08	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#37@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-25
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 19:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 19:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 19:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 19:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 19:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 19:17	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/14/21 09:20*	*07/14/21 19:17*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/14/21 09:20*	*07/14/21 19:17*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 02:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 02:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 02:00	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 15:29	07/15/21 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/14/21 15:29*	*07/15/21 02:00*	*1*
o-Terphenyl	*106*		*70 - 130*	*07/14/21 15:29*	*07/15/21 02:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**168**		4.99		mg/Kg			07/15/21 02:14	1

Client Sample ID: FL#38@4 FT 6IN

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-26
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 19:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 19:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 19:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 19:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 19:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 19:37	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/14/21 09:20*	*07/14/21 19:37*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/14/21 09:20*	*07/14/21 19:37*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/14/21 15:29	07/15/21 02:21	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#38@4 FT 6IN

Lab Sample ID: 890-940-26
Matrix: Solid
Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/14/21 15:29	07/15/21 02:21	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/14/21 15:29	07/15/21 02:21	1
Total TPH	<49.7	U	49.7		mg/Kg		07/14/21 15:29	07/15/21 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*07/14/21 15:29*	*07/15/21 02:21*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/14/21 15:29*	*07/15/21 02:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**242**		5.05		mg/Kg			07/15/21 02:30	1

Client Sample ID: FL#39@4 FT 6 IN

Lab Sample ID: 890-940-27
Matrix: Solid
Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 19:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 19:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 19:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/14/21 09:20	07/14/21 19:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 19:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/14/21 09:20	07/14/21 19:58	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/14/21 09:20	07/14/21 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/14/21 09:20*	*07/14/21 19:58*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/14/21 09:20*	*07/14/21 19:58*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 02:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 02:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 02:42	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/14/21 15:29*	*07/15/21 02:42*	*1*
o-Terphenyl	*91*		*70 - 130*	*07/14/21 15:29*	*07/15/21 02:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**		5.01		mg/Kg			07/15/21 02:35	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#40@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-28
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 20:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 20:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 20:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/14/21 09:20	07/14/21 20:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/14/21 20:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/14/21 09:20	07/14/21 20:18	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		07/14/21 09:20	07/14/21 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/14/21 09:20*	*07/14/21 20:18*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/14/21 09:20*	*07/14/21 20:18*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:02	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*07/14/21 15:29*	*07/15/21 03:02*	*1*
o-Terphenyl	*95*		*70 - 130*	*07/14/21 15:29*	*07/15/21 03:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**134**		5.04		mg/Kg			07/15/21 02:41	1

Client Sample ID: FL#41@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-29
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 20:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 20:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 20:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 20:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 20:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 20:39	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/14/21 09:20*	*07/14/21 20:39*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/14/21 09:20*	*07/14/21 20:39*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:23	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#41@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-29
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:23	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/14/21 15:29*	*07/15/21 03:23*	*1*
o-Terphenyl	*94*		*70 - 130*	*07/14/21 15:29*	*07/15/21 03:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.8**		5.00		mg/Kg			07/15/21 02:46	1

Client Sample ID: FL#42@4

Date Collected: 07/13/21 13:00
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-30
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 20:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 20:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 20:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/14/21 20:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/14/21 20:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/14/21 20:59	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/14/21 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*07/14/21 09:20*	*07/14/21 20:59*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/14/21 09:20*	*07/14/21 20:59*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 03:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 03:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 03:43	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/14/21 15:29*	*07/15/21 03:43*	*1*
o-Terphenyl	*113*		*70 - 130*	*07/14/21 15:29*	*07/15/21 03:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.5**		4.98		mg/Kg			07/15/21 02:51	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#43@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-31
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 22:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 22:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 22:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 22:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/14/21 22:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 22:20	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/14/21 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*07/14/21 09:20*	*07/14/21 22:20*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/14/21 09:20*	*07/14/21 22:20*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:25	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/14/21 15:29*	*07/15/21 04:25*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/14/21 15:29*	*07/15/21 04:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.6**		4.98		mg/Kg			07/15/21 02:57	1

Client Sample ID: FL#44@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-32
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 22:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 22:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 22:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 22:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 22:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 22:41	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/14/21 09:20*	*07/14/21 22:41*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/14/21 09:20*	*07/14/21 22:41*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:45	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#44@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-32
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:45	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*07/14/21 15:29*	*07/15/21 04:45*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/14/21 15:29*	*07/15/21 04:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.9**		5.04		mg/Kg			07/15/21 03:13	1

Client Sample ID: FL#45@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-33
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 23:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 23:01	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/14/21 09:20*	*07/14/21 23:01*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/14/21 09:20*	*07/14/21 23:01*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:06	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/14/21 15:29*	*07/15/21 05:06*	*1*
o-Terphenyl	*91*		*70 - 130*	*07/14/21 15:29*	*07/15/21 05:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.6**		4.99		mg/Kg			07/15/21 03:18	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#46@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-34
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/21 09:20	07/14/21 23:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/21 09:20	07/14/21 23:21	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/14/21 09:20	07/14/21 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/14/21 09:20*	*07/14/21 23:21*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/14/21 09:20*	*07/14/21 23:21*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:26	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/14/21 15:29*	*07/15/21 05:26*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/14/21 15:29*	*07/15/21 05:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**406**		4.98		mg/Kg			07/15/21 03:34	1

Client Sample ID: FL#47@9

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-35
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 23:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 23:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 23:42	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/14/21 09:20	07/14/21 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/14/21 09:20*	*07/14/21 23:42*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/14/21 09:20*	*07/14/21 23:42*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:47	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#47@9

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-35
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:47	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:47	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 05:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/14/21 15:29*	*07/15/21 05:47*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/14/21 15:29*	*07/15/21 05:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.7**		4.95		mg/Kg			07/15/21 03:40	1

Client Sample ID: FL#48@9

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-36
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/15/21 00:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/15/21 00:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/15/21 00:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/14/21 09:20	07/15/21 00:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:20	07/15/21 00:02	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/14/21 09:20	07/15/21 00:02	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/14/21 09:20	07/15/21 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/14/21 09:20*	*07/15/21 00:02*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*07/14/21 09:20*	*07/15/21 00:02*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:08	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*07/14/21 15:29*	*07/15/21 06:08*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/14/21 15:29*	*07/15/21 06:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.3**		5.02		mg/Kg			07/15/21 03:45	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#49@9

Lab Sample ID: 890-940-37
Matrix: Solid
Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/15/21 00:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/15/21 00:23	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/15/21 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/14/21 09:20*	*07/15/21 00:23*	*1*
1,4-Difluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*07/14/21 09:20*	*07/15/21 00:23*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:28	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 06:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/14/21 15:29*	*07/15/21 06:28*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/14/21 15:29*	*07/15/21 06:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.7**		5.05		mg/Kg			07/15/21 03:51	1

Client Sample ID: FL#50@9

Lab Sample ID: 890-940-38
Matrix: Solid
Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/15/21 00:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:20	07/15/21 00:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/15/21 00:43	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:20	07/15/21 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/14/21 09:20*	*07/15/21 00:43*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/14/21 09:20*	*07/15/21 00:43*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 06:49	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#50@9

Lab Sample ID: 890-940-38
Matrix: Solid
Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 06:49	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 06:49	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 06:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/14/21 15:29*	*07/15/21 06:49*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/14/21 15:29*	*07/15/21 06:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.5**		4.98		mg/Kg			07/15/21 03:56	1

Client Sample ID: FL#51@9

Lab Sample ID: 890-940-39
Matrix: Solid
Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/15/21 01:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/15/21 01:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/15/21 01:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/15/21 01:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/21 09:20	07/15/21 01:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/15/21 01:03	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/14/21 09:20	07/15/21 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/14/21 09:20*	*07/15/21 01:03*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/14/21 09:20*	*07/15/21 01:03*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 07:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 07:09	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 07:09	1
Total TPH	<49.9	U	49.9		mg/Kg		07/14/21 15:29	07/15/21 07:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/14/21 15:29*	*07/15/21 07:09*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/14/21 15:29*	*07/15/21 07:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**639**		5.00		mg/Kg			07/15/21 04:01	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#52@9

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-40

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/15/21 01:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/15/21 01:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/15/21 01:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/15/21 01:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/15/21 01:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/15/21 01:24	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/15/21 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/14/21 09:20*	*07/15/21 01:24*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/14/21 09:20*	*07/15/21 01:24*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 07:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 07:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 07:29	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/15/21 07:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*07/14/21 15:29*	*07/15/21 07:29*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/14/21 15:29*	*07/15/21 07:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**528**		5.00		mg/Kg			07/15/21 04:07	1

Client Sample ID: NSW#5@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-41

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:07	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:07	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:07	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		07/14/21 09:47	07/15/21 12:07	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:07	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		07/14/21 09:47	07/15/21 12:07	1
Total BTEX	<0.00399	U F1 F2	0.00399		mg/Kg		07/14/21 09:47	07/15/21 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/14/21 09:47*	*07/15/21 12:07*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/14/21 09:47*	*07/15/21 12:07*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 13:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: NSW#5@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-41
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 13:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 13:25	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/14/21 16:17*	*07/15/21 13:25*	*1*
o-Terphenyl	*126*		*70 - 130*	*07/14/21 16:17*	*07/15/21 13:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**450**		5.03		mg/Kg			07/15/21 16:45	1

Client Sample ID: NSW#6@4

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-42
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/21 09:47	07/15/21 12:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 12:32	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/21 09:47	07/15/21 12:32	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/14/21 09:47	07/15/21 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/14/21 09:47*	*07/15/21 12:32*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/14/21 09:47*	*07/15/21 12:32*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 14:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 14:27	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 14:27	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/14/21 16:17*	*07/15/21 14:27*	*1*
o-Terphenyl	*123*		*70 - 130*	*07/14/21 16:17*	*07/15/21 14:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**566**		4.97		mg/Kg			07/15/21 16:51	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: SSW#5@9
Lab Sample ID: 890-940-43
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:47	07/15/21 12:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:47	07/15/21 12:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:47	07/15/21 12:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/14/21 09:47	07/15/21 12:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/21 09:47	07/15/21 12:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/14/21 09:47	07/15/21 12:58	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/14/21 09:47	07/15/21 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/14/21 09:47*	*07/15/21 12:58*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/14/21 09:47*	*07/15/21 12:58*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:04	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/14/21 16:17*	*07/15/21 15:04*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/14/21 16:17*	*07/15/21 15:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.6**		4.95		mg/Kg			07/15/21 16:56	1

Client Sample ID: FL#21@5
Lab Sample ID: 890-940-44
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:47	07/15/21 13:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:47	07/15/21 13:23	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:47	07/15/21 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/14/21 09:47*	*07/15/21 13:23*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/14/21 09:47*	*07/15/21 13:23*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:25	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: FL#21@5

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-44
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:25	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/14/21 16:17*	*07/15/21 15:25*	*1*
o-Terphenyl	*117*		*70 - 130*	*07/14/21 16:17*	*07/15/21 15:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.8**		5.00		mg/Kg			07/15/21 17:25	1

Client Sample ID: FL#22@5

Date Collected: 07/13/21 13:30
Date Received: 07/13/21 15:39

Lab Sample ID: 890-940-45
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/21 09:47	07/15/21 13:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/21 09:47	07/15/21 13:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/21 09:47	07/15/21 13:48	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/14/21 09:47	07/15/21 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*07/14/21 09:47*	*07/15/21 13:48*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/14/21 09:47*	*07/15/21 13:48*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 15:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 15:46	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 15:46	1
Total TPH	<49.8	U	49.8		mg/Kg		07/14/21 16:17	07/15/21 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/14/21 16:17*	*07/15/21 15:46*	*1*
o-Terphenyl	*116*		*70 - 130*	*07/14/21 16:17*	*07/15/21 15:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**367**		25.1		mg/Kg			07/15/21 17:07	5

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-940-1	WSW#13@4	102	84
890-940-1 MS	WSW#13@4	107	96
890-940-2	WSW#14@4	108	107
890-940-3	WSW#15@4	107	95
890-940-4	WSW#16@4	110	100
890-940-5	WSW#17@4	122	107
890-940-6	WSW#18@4	112	94
890-940-7	WSW#19@4	102	86
890-940-8	WSW#20@4	148 S1+	98
890-940-9	WSW#21@4	122	107
890-940-10	WSW#22@4	118	103
890-940-11	WSW#23@4	110	97
890-940-12	WSW#24@9	121	100
890-940-13	ESW#9@4	110	104
890-940-14	ESW#10@4	129	113
890-940-15	ESW#11@4	103	83
890-940-16	ESW#12@4	115	102
890-940-17	ESW#13@4	126	97
890-940-18	ESW#14@4	111	111
890-940-19	ESW#15@7	134 S1+	90
890-940-20	ESW#16@9	141 S1+	107
890-940-21	FL#33@4	95	91
890-940-21 MS	FL#33@4	111	104
890-940-22	FL#34@4	101	93
890-940-23	FL#35@4	95	86
890-940-24	FL#36@4	91	94
890-940-25	FL#37@4	98	90
890-940-26	FL#38@4 FT 6IN	105	96
890-940-27	FL#39@4 FT 6 IN	101	93
890-940-28	FL#40@4	93	92
890-940-29	FL#41@4	92	92
890-940-30	FL#42@4	104	91
890-940-31	FL#43@4	94	91
890-940-32	FL#44@4	99	91
890-940-33	FL#45@4	106	88
890-940-34	FL#46@4	92	91
890-940-35	FL#47@9	97	87
890-940-36	FL#48@9	101	82
890-940-37	FL#49@9	102	66 S1-
890-940-38	FL#50@9	101	86
890-940-39	FL#51@9	109	94
890-940-40	FL#52@9	97	88
890-940-41	NSW#5@4	116	88
890-940-41 MS	NSW#5@4	76	96
890-940-41 MSD	NSW#5@4	84	109
890-940-42	NSW#6@4	109	103
890-940-43	SSW#5@9	108	104
890-940-44	FL#21@5	102	103
890-940-45	FL#22@5	100	98

Surrogate Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-5141/1-A	Lab Control Sample	90	90
LCS 880-5142/1-A	Lab Control Sample	100	105
LCS 880-5145/1-A	Lab Control Sample	97	108
LCSD 880-5141/2-A	Lab Control Sample Dup	95	96
LCSD 880-5142/2-A	Lab Control Sample Dup	102	103
LCSD 880-5145/2-A	Lab Control Sample Dup	93	103
MB 880-5141/5-A	Method Blank	107	94
MB 880-5142/5-A	Method Blank	82	98
MB 880-5145/5-A	Method Blank	64 S1-	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
890-940-1 MSD	WSW#13@4		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-940-1	WSW#13@4	103	119
890-940-1 MS	WSW#13@4	102	107
890-940-1 MSD	WSW#13@4	101	102
890-940-2	WSW#14@4	107	122
890-940-3	WSW#15@4	107	125
890-940-4	WSW#16@4	110	126
890-940-5	WSW#17@4	106	121
890-940-6	WSW#18@4	107	122
890-940-7	WSW#19@4	107	121
890-940-8	WSW#20@4	104	121
890-940-9	WSW#21@4	110	126
890-940-10	WSW#22@4	105	119
890-940-11	WSW#23@4	107	125
890-940-12	WSW#24@9	103	120
890-940-13	ESW#9@4	108	129
890-940-14	ESW#10@4	106	130
890-940-15	ESW#11@4	99	119
890-940-16	ESW#12@4	102	122
890-940-17	ESW#13@4	105	126
890-940-18	ESW#14@4	109	133 S1+

Surrogate Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-940-19	ESW#15@7	105	125								
890-940-20	ESW#16@9	105	122								
890-940-21	FL#33@4	82	83								
890-940-21 MS	FL#33@4	79	71								
890-940-21 MSD	FL#33@4	88	80								
890-940-22	FL#34@4	85	90								
890-940-23	FL#35@4	97	103								
890-940-24	FL#36@4	88	92								
890-940-25	FL#37@4	101	106								
890-940-26	FL#38@4 FT 6IN	100	108								
890-940-27	FL#39@4 FT 6 IN	88	91								
890-940-28	FL#40@4	89	95								
890-940-29	FL#41@4	87	94								
890-940-30	FL#42@4	105	113								
890-940-31	FL#43@4	101	108								
890-940-32	FL#44@4	86	92								
890-940-33	FL#45@4	87	91								
890-940-34	FL#46@4	98	103								
890-940-35	FL#47@9	87	90								
890-940-36	FL#48@9	86	92								
890-940-37	FL#49@9	101	110								
890-940-38	FL#50@9	97	107								
890-940-39	FL#51@9	101	110								
890-940-40	FL#52@9	99	108								
890-940-41	NSW#5@4	107	126								
890-940-41 MS	NSW#5@4	99	100								
890-940-41 MSD	NSW#5@4	101	106								
890-940-42	NSW#6@4	104	123								
890-940-43	SSW#5@9	98	114								
890-940-44	FL#21@5	104	117								
890-940-45	FL#22@5	98	116								
LCS 880-5193/2-A	Lab Control Sample	107	114								
LCS 880-5194/2-A	Lab Control Sample	105	107								
LCS 880-5199/2-A	Lab Control Sample	100	107								
LCSD 880-5193/3-A	Lab Control Sample Dup	105	119								
LCSD 880-5194/3-A	Lab Control Sample Dup	114	115								
LCSD 880-5199/3-A	Lab Control Sample Dup	103	114								
MB 880-5193/1-A	Method Blank	120	140 S1+								
MB 880-5194/1-A	Method Blank	94	103								
MB 880-5199/1-A	Method Blank	92	108								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5141/5-A
Matrix: Solid
Analysis Batch: 5146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 17:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 17:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 17:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 17:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:16	07/14/21 17:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 17:36	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:16	07/14/21 17:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/14/21 09:16*	*07/14/21 17:36*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/14/21 09:16*	*07/14/21 17:36*	*1*

Lab Sample ID: LCS 880-5141/1-A
Matrix: Solid
Analysis Batch: 5146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5141

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08959		mg/Kg		90	70 - 130		
Toluene			0.100	0.07649		mg/Kg		76	70 - 130		
Ethylbenzene			0.100	0.08574		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene			0.200	0.1792		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.08333		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-5141/2-A
Matrix: Solid
Analysis Batch: 5146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5141

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09714		mg/Kg		97	70 - 130	8	35
Toluene			0.100	0.08839		mg/Kg		88	70 - 130	14	35
Ethylbenzene			0.100	0.08845		mg/Kg		88	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1890		mg/Kg		95	70 - 130	5	35
o-Xylene			0.100	0.09022		mg/Kg		90	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-940-1 MSD
Matrix: Solid
Analysis Batch: 5146

Client Sample ID: WSW#13@4
Prep Type: Total/NA
Prep Batch: 5141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.07852		mg/Kg					

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-940-1 MSD
Matrix: Solid
Analysis Batch: 5146

Client Sample ID: WSW#13@4
Prep Type: Total/NA
Prep Batch: 5141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	<0.00201	U	0.100	0.06878		mg/Kg					
Ethylbenzene	<0.00201	U	0.100	0.06972		mg/Kg					
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1489		mg/Kg					
o-Xylene	<0.00201	U	0.100	0.07030		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: MB 880-5142/5-A
Matrix: Solid
Analysis Batch: 5147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 17:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 17:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 17:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 17:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:20	07/14/21 17:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 17:34	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:20	07/14/21 17:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*07/14/21 09:20*	*07/14/21 17:34*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/14/21 09:20*	*07/14/21 17:34*	*1*

Lab Sample ID: LCS 880-5142/1-A
Matrix: Solid
Analysis Batch: 5147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09378		mg/Kg		94	70 - 130
Toluene	0.100	0.08776		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.08710		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1755		mg/Kg		88	70 - 130
o-Xylene	0.100	0.08754		mg/Kg		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-5142/2-A
Matrix: Solid
Analysis Batch: 5147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5142

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09098		mg/Kg		91	70 - 130	3	35
Toluene	0.100	0.08729		mg/Kg		87	70 - 130	1	35

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-5142/2-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 5147
Prep Batch: 5142

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.08921		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1817		mg/Kg		91	70 - 130	3	35
o-Xylene			0.100	0.09062		mg/Kg		91	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 880-5145/5-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 5206
Prep Batch: 5145

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 11:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 11:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 11:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/21 09:47	07/15/21 11:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/21 09:47	07/15/21 11:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/21 09:47	07/15/21 11:42	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/14/21 09:47	07/15/21 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*07/14/21 09:47*	*07/15/21 11:42*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/14/21 09:47*	*07/15/21 11:42*	*1*

Lab Sample ID: LCS 880-5145/1-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 5206
Prep Batch: 5145

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			0.100	0.09288		mg/Kg		93	70 - 130
Toluene			0.100	0.08881		mg/Kg		89	70 - 130
Ethylbenzene			0.100	0.1006		mg/Kg		101	70 - 130
m-Xylene & p-Xylene			0.200	0.1760		mg/Kg		88	70 - 130
o-Xylene			0.100	0.09177		mg/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-5145/2-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 5206
Prep Batch: 5145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08785		mg/Kg		88	70 - 130	6	35
Toluene			0.100	0.09379		mg/Kg		94	70 - 130	5	35
Ethylbenzene			0.100	0.09612		mg/Kg		96	70 - 130	5	35

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-5145/2-A
Matrix: Solid
Analysis Batch: 5206

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene			0.200	0.1682		mg/Kg		84	70 - 130	5	35
o-Xylene			0.100	0.08780		mg/Kg		88	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-940-41 MS
Matrix: Solid
Analysis Batch: 5206

Client Sample ID: NSW#5@4
Prep Type: Total/NA
Prep Batch: 5145

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.0992	0.03010	F1	mg/Kg		30	70 - 130
Toluene	<0.00200	U F1	0.0992	0.03461	F1	mg/Kg		35	70 - 130
Ethylbenzene	<0.00200	U F1	0.0992	0.03681	F1	mg/Kg		37	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.198	0.06657	F1	mg/Kg		34	70 - 130
o-Xylene	<0.00200	U F1	0.0992	0.03542	F1	mg/Kg		36	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-940-41 MSD
Matrix: Solid
Analysis Batch: 5206

Client Sample ID: NSW#5@4
Prep Type: Total/NA
Prep Batch: 5145

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.101	0.04268	F1	mg/Kg		42	70 - 130	35	35
Toluene	<0.00200	U F1	0.101	0.04214	F1	mg/Kg		42	70 - 130	20	35
Ethylbenzene	<0.00200	U F1	0.101	0.05160	F1	mg/Kg		51	70 - 130	33	35
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.09229	F1	mg/Kg		46	70 - 130	32	35
o-Xylene	<0.00200	U F1	0.101	0.04794	F1	mg/Kg		48	70 - 130	30	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 890-940-1 MS
Matrix: Solid
Analysis Batch: 5146

Client Sample ID: WSW#13@4
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-940-21 MS
Matrix: Solid
Analysis Batch: 5147

Client Sample ID: FL#33@4
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-5193/1-A
Matrix: Solid
Analysis Batch: 5176

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 22:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 22:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 22:55	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:14	07/14/21 22:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	07/14/21 15:14	07/14/21 22:55	1
o-Terphenyl	140	S1+	70 - 130	07/14/21 15:14	07/14/21 22:55	1

Lab Sample ID: LCS 880-5193/2-A
Matrix: Solid
Analysis Batch: 5176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	764.3		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	1000	926.6		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-5193/3-A
Matrix: Solid
Analysis Batch: 5176

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5193

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	747.2		mg/Kg		75	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	953.5		mg/Kg		95	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	119		70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-940-1 MS
Matrix: Solid
Analysis Batch: 5176

Client Sample ID: WSW#13@4
Prep Type: Total/NA
Prep Batch: 5193

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	932.3		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1223		mg/Kg		121	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: 890-940-1 MSD
Matrix: Solid
Analysis Batch: 5176

Client Sample ID: WSW#13@4
Prep Type: Total/NA
Prep Batch: 5193

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	999.2		mg/Kg		100	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1183		mg/Kg		117	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: MB 880-5194/1-A
Matrix: Solid
Analysis Batch: 5179

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/14/21 22:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/14/21 22:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/14/21 22:55	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 15:29	07/14/21 22:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/14/21 15:29*	*07/14/21 22:55*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/14/21 15:29*	*07/14/21 22:55*	*1*

Lab Sample ID: LCS 880-5194/2-A
Matrix: Solid
Analysis Batch: 5179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	802.1		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	945.9		mg/Kg		95	70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-5194/2-A
Matrix: Solid
Analysis Batch: 5179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5194

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: LCSD 880-5194/3-A
Matrix: Solid
Analysis Batch: 5179

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5194

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	902.1		mg/Kg		90	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1036		mg/Kg		104	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-940-21 MS
Matrix: Solid
Analysis Batch: 5179

Client Sample ID: FL#33@4
Prep Type: Total/NA
Prep Batch: 5194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	996	653.0	F1	mg/Kg		66	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	862.5		mg/Kg		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	71		70 - 130

Lab Sample ID: 890-940-21 MSD
Matrix: Solid
Analysis Batch: 5179

Client Sample ID: FL#33@4
Prep Type: Total/NA
Prep Batch: 5194

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	996	776.6		mg/Kg		78	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	985.6		mg/Kg		99	70 - 130	13	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	80		70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-5199/1-A
Matrix: Solid
Analysis Batch: 5214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 12:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 12:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 12:23	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 16:17	07/15/21 12:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/14/21 16:17*	*07/15/21 12:23*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/14/21 16:17*	*07/15/21 12:23*	*1*

Lab Sample ID: LCS 880-5199/2-A
Matrix: Solid
Analysis Batch: 5214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5199

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	768.2		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	906.9		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: LCSD 880-5199/3-A
Matrix: Solid
Analysis Batch: 5214

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5199

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	770.2		mg/Kg		77	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	941.3		mg/Kg		94	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*114*		*70 - 130*

Lab Sample ID: 890-940-41 MS
Matrix: Solid
Analysis Batch: 5214

Client Sample ID: NSW#5@4
Prep Type: Total/NA
Prep Batch: 5199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	903.3		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1104		mg/Kg		111	70 - 130		

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-940-41 MS
Matrix: Solid
Analysis Batch: 5214

Client Sample ID: NSW#5@4
Prep Type: Total/NA
Prep Batch: 5199

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 890-940-41 MSD
Matrix: Solid
Analysis Batch: 5214

Client Sample ID: NSW#5@4
Prep Type: Total/NA
Prep Batch: 5199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	924.0		mg/Kg		93	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1156		mg/Kg		116	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5185/1-A
Matrix: Solid
Analysis Batch: 5201

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/15/21 01:25	1

Lab Sample ID: LCS 880-5185/2-A
Matrix: Solid
Analysis Batch: 5201

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	259.7		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-5185/3-A
Matrix: Solid
Analysis Batch: 5201

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	260.3		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-940-21 MS
Matrix: Solid
Analysis Batch: 5201

Client Sample ID: FL#33@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	133		249	388.2		mg/Kg		102	90 - 110

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-940-21 MSD
Matrix: Solid
Analysis Batch: 5201

Client Sample ID: FL#33@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	133		249	388.8		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-940-31 MS
Matrix: Solid
Analysis Batch: 5201

Client Sample ID: FL#43@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	68.6		249	336.3		mg/Kg		108	90 - 110

Lab Sample ID: 890-940-31 MSD
Matrix: Solid
Analysis Batch: 5201

Client Sample ID: FL#43@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	68.6		249	336.6		mg/Kg		108	90 - 110	0	20

Lab Sample ID: MB 880-5184/1-A
Matrix: Solid
Analysis Batch: 5202

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/15/21 07:30	1

Lab Sample ID: LCS 880-5184/2-A
Matrix: Solid
Analysis Batch: 5202

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	261.7		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-5184/3-A
Matrix: Solid
Analysis Batch: 5202

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	252	264.3		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-940-1 MS
Matrix: Solid
Analysis Batch: 5202

Client Sample ID: WSW#13@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	459		250	707.6		mg/Kg		100	90 - 110

Lab Sample ID: 890-940-1 MSD
Matrix: Solid
Analysis Batch: 5202

Client Sample ID: WSW#13@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	459		250	708.0		mg/Kg		100	90 - 110	0	20

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-940-11 MS
Matrix: Solid
Analysis Batch: 5202

Client Sample ID: WSW#23@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	98.0		249	362.3		mg/Kg		106	90 - 110

Lab Sample ID: 890-940-11 MSD
Matrix: Solid
Analysis Batch: 5202

Client Sample ID: WSW#23@4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	98.0		249	366.5		mg/Kg		108	90 - 110	1	20

Lab Sample ID: MB 880-5186/1-A
Matrix: Solid
Analysis Batch: 5221

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/15/21 13:32	1

Lab Sample ID: LCS 880-5186/2-A
Matrix: Solid
Analysis Batch: 5221

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	259.1		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-5186/3-A
Matrix: Solid
Analysis Batch: 5221

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	259.1		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

GC VOA

Prep Batch: 5141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-1	WSW#13@4	Total/NA	Solid	5035	
890-940-2	WSW#14@4	Total/NA	Solid	5035	
890-940-3	WSW#15@4	Total/NA	Solid	5035	
890-940-4	WSW#16@4	Total/NA	Solid	5035	
890-940-5	WSW#17@4	Total/NA	Solid	5035	
890-940-6	WSW#18@4	Total/NA	Solid	5035	
890-940-7	WSW#19@4	Total/NA	Solid	5035	
890-940-8	WSW#20@4	Total/NA	Solid	5035	
890-940-9	WSW#21@4	Total/NA	Solid	5035	
890-940-10	WSW#22@4	Total/NA	Solid	5035	
890-940-11	WSW#23@4	Total/NA	Solid	5035	
890-940-12	WSW#24@9	Total/NA	Solid	5035	
890-940-13	ESW#9@4	Total/NA	Solid	5035	
890-940-14	ESW#10@4	Total/NA	Solid	5035	
890-940-15	ESW#11@4	Total/NA	Solid	5035	
890-940-16	ESW#12@4	Total/NA	Solid	5035	
890-940-17	ESW#13@4	Total/NA	Solid	5035	
890-940-18	ESW#14@4	Total/NA	Solid	5035	
890-940-19	ESW#15@7	Total/NA	Solid	5035	
890-940-20	ESW#16@9	Total/NA	Solid	5035	
MB 880-5141/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5141/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5141/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-940-1 MSD	WSW#13@4	Total/NA	Solid	5035	

Prep Batch: 5142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-21	FL#33@4	Total/NA	Solid	5035	
890-940-22	FL#34@4	Total/NA	Solid	5035	
890-940-23	FL#35@4	Total/NA	Solid	5035	
890-940-24	FL#36@4	Total/NA	Solid	5035	
890-940-25	FL#37@4	Total/NA	Solid	5035	
890-940-26	FL#38@4 FT 6IN	Total/NA	Solid	5035	
890-940-27	FL#39@4 FT 6 IN	Total/NA	Solid	5035	
890-940-28	FL#40@4	Total/NA	Solid	5035	
890-940-29	FL#41@4	Total/NA	Solid	5035	
890-940-30	FL#42@4	Total/NA	Solid	5035	
890-940-31	FL#43@4	Total/NA	Solid	5035	
890-940-32	FL#44@4	Total/NA	Solid	5035	
890-940-33	FL#45@4	Total/NA	Solid	5035	
890-940-34	FL#46@4	Total/NA	Solid	5035	
890-940-35	FL#47@9	Total/NA	Solid	5035	
890-940-36	FL#48@9	Total/NA	Solid	5035	
890-940-37	FL#49@9	Total/NA	Solid	5035	
890-940-38	FL#50@9	Total/NA	Solid	5035	
890-940-39	FL#51@9	Total/NA	Solid	5035	
890-940-40	FL#52@9	Total/NA	Solid	5035	
MB 880-5142/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5142/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5142/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

GC VOA

Prep Batch: 5145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-41	NSW#5@4	Total/NA	Solid	5035	
890-940-42	NSW#6@4	Total/NA	Solid	5035	
890-940-43	SSW#5@9	Total/NA	Solid	5035	
890-940-44	FL#21@5	Total/NA	Solid	5035	
890-940-45	FL#22@5	Total/NA	Solid	5035	
MB 880-5145/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5145/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5145/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-940-41 MS	NSW#5@4	Total/NA	Solid	5035	
890-940-41 MSD	NSW#5@4	Total/NA	Solid	5035	

Analysis Batch: 5146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-1	WSW#13@4	Total/NA	Solid	8021B	5141
890-940-2	WSW#14@4	Total/NA	Solid	8021B	5141
890-940-3	WSW#15@4	Total/NA	Solid	8021B	5141
890-940-4	WSW#16@4	Total/NA	Solid	8021B	5141
890-940-5	WSW#17@4	Total/NA	Solid	8021B	5141
890-940-6	WSW#18@4	Total/NA	Solid	8021B	5141
890-940-7	WSW#19@4	Total/NA	Solid	8021B	5141
890-940-8	WSW#20@4	Total/NA	Solid	8021B	5141
890-940-9	WSW#21@4	Total/NA	Solid	8021B	5141
890-940-10	WSW#22@4	Total/NA	Solid	8021B	5141
890-940-11	WSW#23@4	Total/NA	Solid	8021B	5141
890-940-12	WSW#24@9	Total/NA	Solid	8021B	5141
890-940-13	ESW#9@4	Total/NA	Solid	8021B	5141
890-940-14	ESW#10@4	Total/NA	Solid	8021B	5141
890-940-15	ESW#11@4	Total/NA	Solid	8021B	5141
890-940-16	ESW#12@4	Total/NA	Solid	8021B	5141
890-940-17	ESW#13@4	Total/NA	Solid	8021B	5141
890-940-18	ESW#14@4	Total/NA	Solid	8021B	5141
890-940-19	ESW#15@7	Total/NA	Solid	8021B	5141
890-940-20	ESW#16@9	Total/NA	Solid	8021B	5141
MB 880-5141/5-A	Method Blank	Total/NA	Solid	8021B	5141
LCS 880-5141/1-A	Lab Control Sample	Total/NA	Solid	8021B	5141
LCSD 880-5141/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5141
890-940-1 MS	WSW#13@4	Total/NA	Solid	8021B	
890-940-1 MSD	WSW#13@4	Total/NA	Solid	8021B	5141

Analysis Batch: 5147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-21	FL#33@4	Total/NA	Solid	8021B	5142
890-940-22	FL#34@4	Total/NA	Solid	8021B	5142
890-940-23	FL#35@4	Total/NA	Solid	8021B	5142
890-940-24	FL#36@4	Total/NA	Solid	8021B	5142
890-940-25	FL#37@4	Total/NA	Solid	8021B	5142
890-940-26	FL#38@4 FT 6IN	Total/NA	Solid	8021B	5142
890-940-27	FL#39@4 FT 6 IN	Total/NA	Solid	8021B	5142
890-940-28	FL#40@4	Total/NA	Solid	8021B	5142
890-940-29	FL#41@4	Total/NA	Solid	8021B	5142
890-940-30	FL#42@4	Total/NA	Solid	8021B	5142

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

GC VOA (Continued)

Analysis Batch: 5147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-31	FL#43@4	Total/NA	Solid	8021B	5142
890-940-32	FL#44@4	Total/NA	Solid	8021B	5142
890-940-33	FL#45@4	Total/NA	Solid	8021B	5142
890-940-34	FL#46@4	Total/NA	Solid	8021B	5142
890-940-35	FL#47@9	Total/NA	Solid	8021B	5142
890-940-36	FL#48@9	Total/NA	Solid	8021B	5142
890-940-37	FL#49@9	Total/NA	Solid	8021B	5142
890-940-38	FL#50@9	Total/NA	Solid	8021B	5142
890-940-39	FL#51@9	Total/NA	Solid	8021B	5142
890-940-40	FL#52@9	Total/NA	Solid	8021B	5142
MB 880-5142/5-A	Method Blank	Total/NA	Solid	8021B	5142
LCS 880-5142/1-A	Lab Control Sample	Total/NA	Solid	8021B	5142
LCSD 880-5142/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5142
890-940-21 MS	FL#33@4	Total/NA	Solid	8021B	

Analysis Batch: 5206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-41	NSW#5@4	Total/NA	Solid	8021B	5145
890-940-42	NSW#6@4	Total/NA	Solid	8021B	5145
890-940-43	SSW#5@9	Total/NA	Solid	8021B	5145
890-940-44	FL#21@5	Total/NA	Solid	8021B	5145
890-940-45	FL#22@5	Total/NA	Solid	8021B	5145
MB 880-5145/5-A	Method Blank	Total/NA	Solid	8021B	5145
LCS 880-5145/1-A	Lab Control Sample	Total/NA	Solid	8021B	5145
LCSD 880-5145/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5145
890-940-41 MS	NSW#5@4	Total/NA	Solid	8021B	5145
890-940-41 MSD	NSW#5@4	Total/NA	Solid	8021B	5145

GC Semi VOA

Analysis Batch: 5176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-1	WSW#13@4	Total/NA	Solid	8015B NM	5193
890-940-2	WSW#14@4	Total/NA	Solid	8015B NM	5193
890-940-3	WSW#15@4	Total/NA	Solid	8015B NM	5193
890-940-4	WSW#16@4	Total/NA	Solid	8015B NM	5193
890-940-5	WSW#17@4	Total/NA	Solid	8015B NM	5193
890-940-6	WSW#18@4	Total/NA	Solid	8015B NM	5193
890-940-7	WSW#19@4	Total/NA	Solid	8015B NM	5193
890-940-8	WSW#20@4	Total/NA	Solid	8015B NM	5193
890-940-9	WSW#21@4	Total/NA	Solid	8015B NM	5193
890-940-10	WSW#22@4	Total/NA	Solid	8015B NM	5193
890-940-11	WSW#23@4	Total/NA	Solid	8015B NM	5193
890-940-12	WSW#24@9	Total/NA	Solid	8015B NM	5193
890-940-13	ESW#9@4	Total/NA	Solid	8015B NM	5193
890-940-14	ESW#10@4	Total/NA	Solid	8015B NM	5193
890-940-15	ESW#11@4	Total/NA	Solid	8015B NM	5193
890-940-16	ESW#12@4	Total/NA	Solid	8015B NM	5193
890-940-17	ESW#13@4	Total/NA	Solid	8015B NM	5193
890-940-18	ESW#14@4	Total/NA	Solid	8015B NM	5193
890-940-19	ESW#15@7	Total/NA	Solid	8015B NM	5193

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

GC Semi VOA (Continued)

Analysis Batch: 5176 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-20	ESW#16@9	Total/NA	Solid	8015B NM	5193
MB 880-5193/1-A	Method Blank	Total/NA	Solid	8015B NM	5193
LCS 880-5193/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5193
LCSD 880-5193/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5193
890-940-1 MS	WSW#13@4	Total/NA	Solid	8015B NM	5193
890-940-1 MSD	WSW#13@4	Total/NA	Solid	8015B NM	5193

Analysis Batch: 5179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-21	FL#33@4	Total/NA	Solid	8015B NM	5194
890-940-22	FL#34@4	Total/NA	Solid	8015B NM	5194
890-940-23	FL#35@4	Total/NA	Solid	8015B NM	5194
890-940-24	FL#36@4	Total/NA	Solid	8015B NM	5194
890-940-25	FL#37@4	Total/NA	Solid	8015B NM	5194
890-940-26	FL#38@4 FT 6IN	Total/NA	Solid	8015B NM	5194
890-940-27	FL#39@4 FT 6 IN	Total/NA	Solid	8015B NM	5194
890-940-28	FL#40@4	Total/NA	Solid	8015B NM	5194
890-940-29	FL#41@4	Total/NA	Solid	8015B NM	5194
890-940-30	FL#42@4	Total/NA	Solid	8015B NM	5194
890-940-31	FL#43@4	Total/NA	Solid	8015B NM	5194
890-940-32	FL#44@4	Total/NA	Solid	8015B NM	5194
890-940-33	FL#45@4	Total/NA	Solid	8015B NM	5194
890-940-34	FL#46@4	Total/NA	Solid	8015B NM	5194
890-940-35	FL#47@9	Total/NA	Solid	8015B NM	5194
890-940-36	FL#48@9	Total/NA	Solid	8015B NM	5194
890-940-37	FL#49@9	Total/NA	Solid	8015B NM	5194
890-940-38	FL#50@9	Total/NA	Solid	8015B NM	5194
890-940-39	FL#51@9	Total/NA	Solid	8015B NM	5194
890-940-40	FL#52@9	Total/NA	Solid	8015B NM	5194
MB 880-5194/1-A	Method Blank	Total/NA	Solid	8015B NM	5194
LCS 880-5194/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5194
LCSD 880-5194/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5194
890-940-21 MS	FL#33@4	Total/NA	Solid	8015B NM	5194
890-940-21 MSD	FL#33@4	Total/NA	Solid	8015B NM	5194

Prep Batch: 5193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-1	WSW#13@4	Total/NA	Solid	8015NM Prep	
890-940-2	WSW#14@4	Total/NA	Solid	8015NM Prep	
890-940-3	WSW#15@4	Total/NA	Solid	8015NM Prep	
890-940-4	WSW#16@4	Total/NA	Solid	8015NM Prep	
890-940-5	WSW#17@4	Total/NA	Solid	8015NM Prep	
890-940-6	WSW#18@4	Total/NA	Solid	8015NM Prep	
890-940-7	WSW#19@4	Total/NA	Solid	8015NM Prep	
890-940-8	WSW#20@4	Total/NA	Solid	8015NM Prep	
890-940-9	WSW#21@4	Total/NA	Solid	8015NM Prep	
890-940-10	WSW#22@4	Total/NA	Solid	8015NM Prep	
890-940-11	WSW#23@4	Total/NA	Solid	8015NM Prep	
890-940-12	WSW#24@9	Total/NA	Solid	8015NM Prep	
890-940-13	ESW#9@4	Total/NA	Solid	8015NM Prep	
890-940-14	ESW#10@4	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

GC Semi VOA (Continued)

Prep Batch: 5193 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-15	ESW#11@4	Total/NA	Solid	8015NM Prep	
890-940-16	ESW#12@4	Total/NA	Solid	8015NM Prep	
890-940-17	ESW#13@4	Total/NA	Solid	8015NM Prep	
890-940-18	ESW#14@4	Total/NA	Solid	8015NM Prep	
890-940-19	ESW#15@7	Total/NA	Solid	8015NM Prep	
890-940-20	ESW#16@9	Total/NA	Solid	8015NM Prep	
MB 880-5193/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5193/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5193/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-940-1 MS	WSW#13@4	Total/NA	Solid	8015NM Prep	
890-940-1 MSD	WSW#13@4	Total/NA	Solid	8015NM Prep	

Prep Batch: 5194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-21	FL#33@4	Total/NA	Solid	8015NM Prep	
890-940-22	FL#34@4	Total/NA	Solid	8015NM Prep	
890-940-23	FL#35@4	Total/NA	Solid	8015NM Prep	
890-940-24	FL#36@4	Total/NA	Solid	8015NM Prep	
890-940-25	FL#37@4	Total/NA	Solid	8015NM Prep	
890-940-26	FL#38@4 FT 6IN	Total/NA	Solid	8015NM Prep	
890-940-27	FL#39@4 FT 6 IN	Total/NA	Solid	8015NM Prep	
890-940-28	FL#40@4	Total/NA	Solid	8015NM Prep	
890-940-29	FL#41@4	Total/NA	Solid	8015NM Prep	
890-940-30	FL#42@4	Total/NA	Solid	8015NM Prep	
890-940-31	FL#43@4	Total/NA	Solid	8015NM Prep	
890-940-32	FL#44@4	Total/NA	Solid	8015NM Prep	
890-940-33	FL#45@4	Total/NA	Solid	8015NM Prep	
890-940-34	FL#46@4	Total/NA	Solid	8015NM Prep	
890-940-35	FL#47@9	Total/NA	Solid	8015NM Prep	
890-940-36	FL#48@9	Total/NA	Solid	8015NM Prep	
890-940-37	FL#49@9	Total/NA	Solid	8015NM Prep	
890-940-38	FL#50@9	Total/NA	Solid	8015NM Prep	
890-940-39	FL#51@9	Total/NA	Solid	8015NM Prep	
890-940-40	FL#52@9	Total/NA	Solid	8015NM Prep	
MB 880-5194/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5194/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5194/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-940-21 MS	FL#33@4	Total/NA	Solid	8015NM Prep	
890-940-21 MSD	FL#33@4	Total/NA	Solid	8015NM Prep	

Prep Batch: 5199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-41	NSW#5@4	Total/NA	Solid	8015NM Prep	
890-940-42	NSW#6@4	Total/NA	Solid	8015NM Prep	
890-940-43	SSW#5@9	Total/NA	Solid	8015NM Prep	
890-940-44	FL#21@5	Total/NA	Solid	8015NM Prep	
890-940-45	FL#22@5	Total/NA	Solid	8015NM Prep	
MB 880-5199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-940-41 MS	NSW#5@4	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

GC Semi VOA (Continued)

Prep Batch: 5199 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-41 MSD	NSW#5@4	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-41	NSW#5@4	Total/NA	Solid	8015B NM	5199
890-940-42	NSW#6@4	Total/NA	Solid	8015B NM	5199
890-940-43	SSW#5@9	Total/NA	Solid	8015B NM	5199
890-940-44	FL#21@5	Total/NA	Solid	8015B NM	5199
890-940-45	FL#22@5	Total/NA	Solid	8015B NM	5199
MB 880-5199/1-A	Method Blank	Total/NA	Solid	8015B NM	5199
LCS 880-5199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5199
LCSD 880-5199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5199
890-940-41 MS	NSW#5@4	Total/NA	Solid	8015B NM	5199
890-940-41 MSD	NSW#5@4	Total/NA	Solid	8015B NM	5199

HPLC/IC

Leach Batch: 5184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-1	WSW#13@4	Soluble	Solid	DI Leach	
890-940-2	WSW#14@4	Soluble	Solid	DI Leach	
890-940-3	WSW#15@4	Soluble	Solid	DI Leach	
890-940-4	WSW#16@4	Soluble	Solid	DI Leach	
890-940-5	WSW#17@4	Soluble	Solid	DI Leach	
890-940-6	WSW#18@4	Soluble	Solid	DI Leach	
890-940-7	WSW#19@4	Soluble	Solid	DI Leach	
890-940-8	WSW#20@4	Soluble	Solid	DI Leach	
890-940-9	WSW#21@4	Soluble	Solid	DI Leach	
890-940-10	WSW#22@4	Soluble	Solid	DI Leach	
890-940-11	WSW#23@4	Soluble	Solid	DI Leach	
890-940-12	WSW#24@9	Soluble	Solid	DI Leach	
890-940-13	ESW#9@4	Soluble	Solid	DI Leach	
890-940-14	ESW#10@4	Soluble	Solid	DI Leach	
890-940-15	ESW#11@4	Soluble	Solid	DI Leach	
890-940-16	ESW#12@4	Soluble	Solid	DI Leach	
890-940-17	ESW#13@4	Soluble	Solid	DI Leach	
890-940-18	ESW#14@4	Soluble	Solid	DI Leach	
890-940-19	ESW#15@7	Soluble	Solid	DI Leach	
890-940-20	ESW#16@9	Soluble	Solid	DI Leach	
MB 880-5184/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5184/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5184/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-940-1 MS	WSW#13@4	Soluble	Solid	DI Leach	
890-940-1 MSD	WSW#13@4	Soluble	Solid	DI Leach	
890-940-11 MS	WSW#23@4	Soluble	Solid	DI Leach	
890-940-11 MSD	WSW#23@4	Soluble	Solid	DI Leach	

Leach Batch: 5185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-21	FL#33@4	Soluble	Solid	DI Leach	
890-940-22	FL#34@4	Soluble	Solid	DI Leach	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

HPLC/IC (Continued)

Leach Batch: 5185 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-23	FL#35@4	Soluble	Solid	DI Leach	
890-940-24	FL#36@4	Soluble	Solid	DI Leach	
890-940-25	FL#37@4	Soluble	Solid	DI Leach	
890-940-26	FL#38@4 FT 6IN	Soluble	Solid	DI Leach	
890-940-27	FL#39@4 FT 6 IN	Soluble	Solid	DI Leach	
890-940-28	FL#40@4	Soluble	Solid	DI Leach	
890-940-29	FL#41@4	Soluble	Solid	DI Leach	
890-940-30	FL#42@4	Soluble	Solid	DI Leach	
890-940-31	FL#43@4	Soluble	Solid	DI Leach	
890-940-32	FL#44@4	Soluble	Solid	DI Leach	
890-940-33	FL#45@4	Soluble	Solid	DI Leach	
890-940-34	FL#46@4	Soluble	Solid	DI Leach	
890-940-35	FL#47@9	Soluble	Solid	DI Leach	
890-940-36	FL#48@9	Soluble	Solid	DI Leach	
890-940-37	FL#49@9	Soluble	Solid	DI Leach	
890-940-38	FL#50@9	Soluble	Solid	DI Leach	
890-940-39	FL#51@9	Soluble	Solid	DI Leach	
890-940-40	FL#52@9	Soluble	Solid	DI Leach	
MB 880-5185/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5185/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5185/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-940-21 MS	FL#33@4	Soluble	Solid	DI Leach	
890-940-21 MSD	FL#33@4	Soluble	Solid	DI Leach	
890-940-31 MS	FL#43@4	Soluble	Solid	DI Leach	
890-940-31 MSD	FL#43@4	Soluble	Solid	DI Leach	

Leach Batch: 5186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-41	NSW#5@4	Soluble	Solid	DI Leach	
890-940-42	NSW#6@4	Soluble	Solid	DI Leach	
890-940-43	SSW#5@9	Soluble	Solid	DI Leach	
890-940-44	FL#21@5	Soluble	Solid	DI Leach	
890-940-45	FL#22@5	Soluble	Solid	DI Leach	
MB 880-5186/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5186/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5186/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 5201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-21	FL#33@4	Soluble	Solid	300.0	5185
890-940-22	FL#34@4	Soluble	Solid	300.0	5185
890-940-23	FL#35@4	Soluble	Solid	300.0	5185
890-940-24	FL#36@4	Soluble	Solid	300.0	5185
890-940-25	FL#37@4	Soluble	Solid	300.0	5185
890-940-26	FL#38@4 FT 6IN	Soluble	Solid	300.0	5185
890-940-27	FL#39@4 FT 6 IN	Soluble	Solid	300.0	5185
890-940-28	FL#40@4	Soluble	Solid	300.0	5185
890-940-29	FL#41@4	Soluble	Solid	300.0	5185
890-940-30	FL#42@4	Soluble	Solid	300.0	5185
890-940-31	FL#43@4	Soluble	Solid	300.0	5185
890-940-32	FL#44@4	Soluble	Solid	300.0	5185

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

HPLC/IC (Continued)

Analysis Batch: 5201 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-33	FL#45@4	Soluble	Solid	300.0	5185
890-940-34	FL#46@4	Soluble	Solid	300.0	5185
890-940-35	FL#47@9	Soluble	Solid	300.0	5185
890-940-36	FL#48@9	Soluble	Solid	300.0	5185
890-940-37	FL#49@9	Soluble	Solid	300.0	5185
890-940-38	FL#50@9	Soluble	Solid	300.0	5185
890-940-39	FL#51@9	Soluble	Solid	300.0	5185
890-940-40	FL#52@9	Soluble	Solid	300.0	5185
MB 880-5185/1-A	Method Blank	Soluble	Solid	300.0	5185
LCS 880-5185/2-A	Lab Control Sample	Soluble	Solid	300.0	5185
LCSD 880-5185/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5185
890-940-21 MS	FL#33@4	Soluble	Solid	300.0	5185
890-940-21 MSD	FL#33@4	Soluble	Solid	300.0	5185
890-940-31 MS	FL#43@4	Soluble	Solid	300.0	5185
890-940-31 MSD	FL#43@4	Soluble	Solid	300.0	5185

Analysis Batch: 5202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-1	WSW#13@4	Soluble	Solid	300.0	5184
890-940-2	WSW#14@4	Soluble	Solid	300.0	5184
890-940-3	WSW#15@4	Soluble	Solid	300.0	5184
890-940-4	WSW#16@4	Soluble	Solid	300.0	5184
890-940-5	WSW#17@4	Soluble	Solid	300.0	5184
890-940-6	WSW#18@4	Soluble	Solid	300.0	5184
890-940-7	WSW#19@4	Soluble	Solid	300.0	5184
890-940-8	WSW#20@4	Soluble	Solid	300.0	5184
890-940-9	WSW#21@4	Soluble	Solid	300.0	5184
890-940-10	WSW#22@4	Soluble	Solid	300.0	5184
890-940-11	WSW#23@4	Soluble	Solid	300.0	5184
890-940-12	WSW#24@9	Soluble	Solid	300.0	5184
890-940-13	ESW#9@4	Soluble	Solid	300.0	5184
890-940-14	ESW#10@4	Soluble	Solid	300.0	5184
890-940-15	ESW#11@4	Soluble	Solid	300.0	5184
890-940-16	ESW#12@4	Soluble	Solid	300.0	5184
890-940-17	ESW#13@4	Soluble	Solid	300.0	5184
890-940-18	ESW#14@4	Soluble	Solid	300.0	5184
890-940-19	ESW#15@7	Soluble	Solid	300.0	5184
890-940-20	ESW#16@9	Soluble	Solid	300.0	5184
MB 880-5184/1-A	Method Blank	Soluble	Solid	300.0	5184
LCS 880-5184/2-A	Lab Control Sample	Soluble	Solid	300.0	5184
LCSD 880-5184/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5184
890-940-1 MS	WSW#13@4	Soluble	Solid	300.0	5184
890-940-1 MSD	WSW#13@4	Soluble	Solid	300.0	5184
890-940-11 MS	WSW#23@4	Soluble	Solid	300.0	5184
890-940-11 MSD	WSW#23@4	Soluble	Solid	300.0	5184

Analysis Batch: 5221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-41	NSW#5@4	Soluble	Solid	300.0	5186
890-940-42	NSW#6@4	Soluble	Solid	300.0	5186
890-940-43	SSW#5@9	Soluble	Solid	300.0	5186

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

HPLC/IC (Continued)

Analysis Batch: 5221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-940-44	FL#21@5	Soluble	Solid	300.0	5186
890-940-45	FL#22@5	Soluble	Solid	300.0	5186
MB 880-5186/1-A	Method Blank	Soluble	Solid	300.0	5186
LCS 880-5186/2-A	Lab Control Sample	Soluble	Solid	300.0	5186
LCSD 880-5186/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5186

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: WSW#13@4
Lab Sample ID: 890-940-1
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 17:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/14/21 23:57	AM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 07:46	CH	XEN MID

Client Sample ID: WSW#14@4
Lab Sample ID: 890-940-2
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 18:18	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 00:59	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:02	CH	XEN MID

Client Sample ID: WSW#15@4
Lab Sample ID: 890-940-3
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 18:39	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 01:19	AM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:07	CH	XEN MID

Client Sample ID: WSW#16@4
Lab Sample ID: 890-940-4
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 19:00	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 01:40	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:13	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: WSW#17@4
Lab Sample ID: 890-940-5
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 19:20	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 02:00	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:18	CH	XEN MID

Client Sample ID: WSW#18@4
Lab Sample ID: 890-940-6
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 19:41	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 02:21	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:34	CH	XEN MID

Client Sample ID: WSW#19@4
Lab Sample ID: 890-940-7
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 20:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 02:42	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:40	CH	XEN MID

Client Sample ID: WSW#20@4
Lab Sample ID: 890-940-8
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 20:22	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 03:02	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:45	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: WSW#21@4
Lab Sample ID: 890-940-9
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 20:43	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 03:23	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:50	CH	XEN MID

Client Sample ID: WSW#22@4
Lab Sample ID: 890-940-10
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 21:04	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 03:43	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 08:56	CH	XEN MID

Client Sample ID: WSW#23@4
Lab Sample ID: 890-940-11
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 22:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 04:25	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 09:01	CH	XEN MID

Client Sample ID: WSW#24@9
Lab Sample ID: 890-940-12
Date Collected: 07/13/21 10:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 22:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 04:45	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 11:36	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: ESW#9@4
Lab Sample ID: 890-940-13
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 23:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 05:06	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 11:41	CH	XEN MID

Client Sample ID: ESW#10@4
Lab Sample ID: 890-940-14
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 23:29	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 05:26	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 11:58	CH	XEN MID

Client Sample ID: ESW#11@4
Lab Sample ID: 890-940-15
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/14/21 23:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 05:47	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 12:03	CH	XEN MID

Client Sample ID: ESW#12@4
Lab Sample ID: 890-940-16
Date Collected: 07/13/21 11:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 00:10	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 06:08	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 12:09	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Client Sample ID: ESW#13@4

Lab Sample ID: 890-940-17
Matrix: Solid
Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 00:31	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 06:28	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 12:14	CH	XEN MID

Client Sample ID: ESW#14@4

Lab Sample ID: 890-940-18
Matrix: Solid
Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 00:52	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 06:49	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 12:19	CH	XEN MID

Client Sample ID: ESW#15@7

Lab Sample ID: 890-940-19
Matrix: Solid
Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 01:12	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 07:09	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 12:25	CH	XEN MID

Client Sample ID: ESW#16@9

Lab Sample ID: 890-940-20
Matrix: Solid
Date Collected: 07/13/21 11:00
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5141	07/14/21 09:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5146	07/15/21 01:33	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5193	07/14/21 15:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5176	07/15/21 07:29	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5184	07/14/21 12:37	CH	XEN MID
Soluble	Analysis	300.0		1			5202	07/15/21 12:30	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL#33@4
Lab Sample ID: 890-940-21
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 17:55	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/14/21 23:57	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 01:41	CH	XEN MID

Client Sample ID: FL#34@4
Lab Sample ID: 890-940-22
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 18:16	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 00:59	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 01:57	CH	XEN MID

Client Sample ID: FL#35@4
Lab Sample ID: 890-940-23
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 18:36	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 01:19	AM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:03	CH	XEN MID

Client Sample ID: FL#36@4
Lab Sample ID: 890-940-24
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 18:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 01:40	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:08	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL#37@4
Lab Sample ID: 890-940-25
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 19:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 02:00	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:14	CH	XEN MID

Client Sample ID: FL#38@4 FT 6IN
Lab Sample ID: 890-940-26
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 19:37	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 02:21	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:30	CH	XEN MID

Client Sample ID: FL#39@4 FT 6 IN
Lab Sample ID: 890-940-27
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 19:58	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 02:42	AM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:35	CH	XEN MID

Client Sample ID: FL#40@4
Lab Sample ID: 890-940-28
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 20:18	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 03:02	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:41	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL#41@4
Lab Sample ID: 890-940-29
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 20:39	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 03:23	AM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:46	CH	XEN MID

Client Sample ID: FL#42@4
Lab Sample ID: 890-940-30
Date Collected: 07/13/21 13:00
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 20:59	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 03:43	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:51	CH	XEN MID

Client Sample ID: FL#43@4
Lab Sample ID: 890-940-31
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 22:20	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 04:25	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 02:57	CH	XEN MID

Client Sample ID: FL#44@4
Lab Sample ID: 890-940-32
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 22:41	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 04:45	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 03:13	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL#45@4
Lab Sample ID: 890-940-33
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 23:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 05:06	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 03:18	CH	XEN MID

Client Sample ID: FL#46@4
Lab Sample ID: 890-940-34
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 23:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 05:26	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 03:34	CH	XEN MID

Client Sample ID: FL#47@9
Lab Sample ID: 890-940-35
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/14/21 23:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 05:47	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 03:40	CH	XEN MID

Client Sample ID: FL#48@9
Lab Sample ID: 890-940-36
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/15/21 00:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 06:08	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 03:45	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL#49@9
Lab Sample ID: 890-940-37
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/15/21 00:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 06:28	AM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 03:51	CH	XEN MID

Client Sample ID: FL#50@9
Lab Sample ID: 890-940-38
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/15/21 00:43	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 06:49	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 03:56	CH	XEN MID

Client Sample ID: FL#51@9
Lab Sample ID: 890-940-39
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/15/21 01:03	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 07:09	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 04:01	CH	XEN MID

Client Sample ID: FL#52@9
Lab Sample ID: 890-940-40
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5142	07/14/21 09:20	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5147	07/15/21 01:24	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5194	07/14/21 15:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5179	07/15/21 07:29	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5185	07/14/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			5201	07/15/21 04:07	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: NSW#5@4
Lab Sample ID: 890-940-41
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5206	07/15/21 12:07	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 13:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	5186	07/14/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			5221	07/15/21 16:45	CH	XEN MID

Client Sample ID: NSW#6@4
Lab Sample ID: 890-940-42
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5206	07/15/21 12:32	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5186	07/14/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			5221	07/15/21 16:51	CH	XEN MID

Client Sample ID: SSW#5@9
Lab Sample ID: 890-940-43
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5206	07/15/21 12:58	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 15:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5186	07/14/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			5221	07/15/21 16:56	CH	XEN MID

Client Sample ID: FL#21@5
Lab Sample ID: 890-940-44
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5206	07/15/21 13:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 15:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5186	07/14/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			5221	07/15/21 17:25	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL#22@5
Lab Sample ID: 890-940-45
Date Collected: 07/13/21 13:30
Matrix: Solid
Date Received: 07/13/21 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5145	07/14/21 09:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5206	07/15/21 13:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5199	07/14/21 16:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5214	07/15/21 15:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5186	07/14/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		5			5221	07/15/21 17:07	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-940-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-940-1	WSW#13@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-2	WSW#14@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-3	WSW#15@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-4	WSW#16@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-5	WSW#17@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-6	WSW#18@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-7	WSW#19@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-8	WSW#20@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-9	WSW#21@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-10	WSW#22@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-11	WSW#23@4	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-12	WSW#24@9	Solid	07/13/21 10:00	07/13/21 15:39	
890-940-13	ESW#9@4	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-14	ESW#10@4	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-15	ESW#11@4	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-16	ESW#12@4	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-17	ESW#13@4	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-18	ESW#14@4	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-19	ESW#15@7	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-20	ESW#16@9	Solid	07/13/21 11:00	07/13/21 15:39	
890-940-21	FL#33@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-22	FL#34@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-23	FL#35@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-24	FL#36@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-25	FL#37@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-26	FL#38@4 FT 6IN	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-27	FL#39@4 FT 6 IN	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-28	FL#40@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-29	FL#41@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-30	FL#42@4	Solid	07/13/21 13:00	07/13/21 15:39	
890-940-31	FL#43@4	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-32	FL#44@4	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-33	FL#45@4	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-34	FL#46@4	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-35	FL#47@9	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-36	FL#48@9	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-37	FL#49@9	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-38	FL#50@9	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-39	FL#51@9	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-40	FL#52@9	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-41	NSW#5@4	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-42	NSW#6@4	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-43	SSW#5@9	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-44	FL#21@5	Solid	07/13/21 13:30	07/13/21 15:39	
890-940-45	FL#22@5	Solid	07/13/21 13:30	07/13/21 15:39	

Page 787 of 812

Chain of Custody

XENCO LABORATORIES
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris c/o Rob Kirk 469-928-5630
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

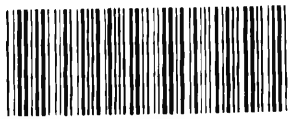
Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☐
Project Location		Rush:	☑
Sampler's Name:	Aaron Rios	Due Date:	24H
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	4.5/4.3	Thermometer ID	IR-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	~~Yes~~ ~~No~~ N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
WSW#13@4'	Soil	7-13-21	10:00 AM		1	X	X	X	
WSW#14@4'	Soil	7-13-21	10:00 AM		1	X	X	X	
WSW#15@4'	Soil	7-13-21	10:00 AM		1	X	X	X	
WSW#16@4'	Soil	7-13-21	10:00 AM		1	X	X	X	
WSW#17@4'	Soil	7-13-21	10:00 AM		1	X	X	X	
WSW#18@4'	Soil	7-13-21	10:00 AM		1	X	X	X	
WSW#19@4'	Soil	7-13-21	10:00 AM		1	X	X	X	
WSW#20@4'	Soil	7-13-21	10:00 AM		1	X	X	X	
WSW#21@4'	Soil	7-13-21	10:00 AM		1	X	X	X	
WSW#22@4'	Soil	7-13-21	10:00 AM		1	X	X	X	



Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
~~Zn Acetate+ NaOH: Zn~~

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U~~ 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios	Cire Cruz	7-13-21 1537	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Page 73 of 82
Released to Imaging: 12/1/2021 8:29:26 AM
7/15/2021

Page 788 of 812

Chain of Custody

XENCO LABORATORIES

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/O Rob Kirk 469-928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etecheny.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☑
Sampler's Name:	Aaron Rios	Due Date:	
PO #:		24H	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0	
Sample Custody Seals:	Yes No N/A	Total Containers:		

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
WSW #23 @4'	Soil	7-13-21	10:00 AM		1	X	X	X		
WSW #24 @ 9'	Soil	7-13-21	10:00 AM		1	X	X	X		
ESW #9 @ 4'	Soil	7-13-21	11:00 Am		1	X	X	X		
ESW #10 @ 4'	Soil	7-13-21	11:00 Am		1	X	X	X		
ESW #11 @ 4'	Soil	7-13-21	11:00 Am		1	X	X	X		
ESW #12 @ 4'	Soil	7-13-21	11:00 Am		1	X	X	X		
ESW #13 @ 4'	Soil	7-13-21	11:00 Am		1	X	X	X		
ESW #14 @ 4'	Soil	7-13-21	11:00 Am		1	X	X	X		
ESW #15 @ 7'	Soil	7-13-21	11:00 AM		1	X	X	X		
ESW #16 @ 9'	Soil	7-13-21	11:00 AM		1	X	X	X		

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010: 8RCRA~~ Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios	Cioe Cuts	7.13.21 1537			
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM

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7/15/2021

Page 74 of 82

Page 789 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/o Rob Kirk 469-928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☑
Project Location		Rush:	☑
Sampler's Name:	Aaron Rios	Due Date:	24H
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
FL#33@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#34@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#35@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#36@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#37@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#38@ 4Ft 6inch	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#39@ 4Ft 6inch	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#40@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#41@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		
FL#42@ 4'	Soil	7-13-21	1:00 PM		1	X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7-13-21 1537	4		
3			6		
5					

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

7/15/2021

Page 790 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/o Rob Kirk 469-928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☐
Project Location		Rush:	☑
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temperature (°C):		Temp Blank:	Yes No	Wet Ice: Yes No
Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
FL#43@4'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#44@4'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#45@4'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#46@4'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#47@9'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#48@9'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#49@9'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#50@9'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#51@9'	Soil	7-13-21	1:30PM		1	X	X	X		
FL#52@9'	Soil	7-13-21	1:30PM		1	X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios		7-13-21 1537			
3			4		
5			6		

Revised Date101419 Rev. 2019.1

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Page 791 of 812

Chain of Custody

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Page 5 of 5

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris c/o Rob Kirk 469-928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☑
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:		Routine:	☐
Project Location		Rush:	☑
Sampler's Name:	Aaron Rios	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
~~Cooler Custody Seals:~~	~~Yes No N/A~~	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
NSW #5 @ 4'	Soil	7-13-21	1:30 PM		1	X	X	X	
NSW #6 @ 4'	Soil	7-13-21	1:30 PM		1	X	X	X	
SSW #5 @ 9'	Soil	7-13-21	1:30 PM		1	X	X	X	
FL #21 @ 5'	Soil	7-13-21	1:30 PM		1	X	X	X	
FL #22 @ 5'	Soil	7-13-21	1:30 PM		1	X	X	X	
	Soil	7-13-21			1	X	X	X	
	Soil	7-13-21			1	X	X	X	
	Soil	7-13-21			1	X	X	X	
	Soil	7-13-21			1	X	X	X	
	Soil	7-13-21			1	X	X	X	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
~~Zn Acetate+ NaOH: Zn~~

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010:~~ 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Aaron Rios	Clint Cody	7-13-21 1537	2		
3				4		
5				6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM
7/15/2021
Page 77 of 82

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 890-301 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 5
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-940-1
Address: 1211 W Florida Ave	Due Date Requested: 7/15/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Marathon Kyle to Willow	Project #: 88000073			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B - NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc Mid - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
WSW#13@4 (890-940-1)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#14@4 (890-940-2)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#15@4 (890-940-3)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#16@4 (890-940-4)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#17@4 (890-940-5)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#18@4 (890-940-6)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#19@4 (890-940-7)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#20@4 (890-940-8)	7/13/21	10 00 Mountain		Solid			X	X	X	1	
WSW#21@4 (890-940-9)	7/13/21	10 00 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by: Cice Cruz 7.13.21	Date/Time	Company	Received by:	Date/Time: 7.14.21 11:30 am	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Page 792 of 812
Received by OCD: 8/21/2021 12:00:14 AM
7/15/2021
Page 78 of 82
Released to Imaging: 12/1/2021 8:29:26 AM

Page 793 of 812

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 890-301 3
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 3 of 5
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-940-1
Address: 1211 W Florida Ave, ,	Due Date Requested: 7/15/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Marathon Kyle to Willow	Project #: 88000073			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc Mid - BTEX	Total Number of containers	Special Instructions/Note.
			Preservation Code:								
ESW#15@7 (890-940-19)	7/13/21	11 00 Mountain		Solid			X	X	X	1	
ESW#16@9 (890-940-20)	7/13/21	11 00 Mountain		Solid			X	X	X	1	
FL#33@4 (890-940-21)	7/13/21	13 00 Mountain		Solid			X	X	X	1	
FL#34@4 (890-940-22)	7/13/21	13 00 Mountain		Solid			X	X	X	1	
FL#35@4 (890-940-23)	7/13/21	13 00 Mountain		Solid			X	X	X	1	
FL#36@4 (890-940-24)	7/13/21	13 00 Mountain		Solid			X	X	X	1	
FL#37@4 (890-940-25)	7/13/21	13 00 Mountain		Solid			X	X	X	1	
FL#38@4 FT 6IN (890-940-26)	7/13/21	13 00 Mountain		Solid			X	X	X	1	
FL#39@4 FT 6 IN (890-940-27)	7/13/21	13 00 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Clae Cuff 7-13-21				7-14-21 11:30 am	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Received by OCD: 8/21/2021 12:00:14 AM

Page 79 of 82

7/15/2021

Released to Imaging: 12/1/2021 8:29:26 AM

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer, Jessica	Carrier Tracking No(s)	COC No: 890-301 5
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 5 of 5
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-940-1
Address: 1211 W Florida Ave	Due Date Requested: 7/15/2021			
City: Midland	TAT Requested (days):			
State Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Marathon Kyle to Willow	Project #: 88000073			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc Mid - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
FL#49@9 (890-940-37)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
FL#50@9 (890-940-38)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
FL#51@9 (890-940-39)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
FL#52@9 (890-940-40)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
NSW#5@4 (890-940-41)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
NSW#6@4 (890-940-42)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
SSW#5@9 (890-940-43)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
FL#21@5 (890-940-44)	7/13/21	13 30 Mountain		Solid			X	X	X	1	
FL#22@5 (890-940-45)	7/13/21	13 30 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Cwcurt 7137				7-14-21 1:30 PM	
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Received by OCD: 8/21/2021 12:00:14 AM
Released to Imaging: 12/1/2021 8:29:26 AM

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-940-1
SDG Number: 13714

Login Number: 940
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-940-1
SDG Number: 13714

Login Number: 940
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 07/14/21 11:17 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-953-1
Laboratory Sample Delivery Group: 13714
Client Project/Site: Marathon Kyle to Willow

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

JKramer

Authorized for release by:
7/21/2021 1:34:09 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Laboratory Job ID: 890-953-1
SDG: 13714

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
QC Sample Results 6
QC Association Summary 7
Lab Chronicle 8
Certification Summary 9
Method Summary 10
Sample Summary 11
Chain of Custody 12
Receipt Checklists 14

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 890-953-1
Project/Site: Marathon Kyle to Willow SDG: 13714

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-953-1
SDG: 13714

Job ID: 890-953-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-953-1

Receipt

The sample was received on 7/16/2021 10:36 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Released to Imaging: 12/1/2021 8:29:26 AM

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 890-953-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #51 @ 9 FT 6 IN
Lab Sample ID: 890-953-1

Date Collected: 07/16/21 08:04
Matrix: Solid
Date Received: 07/16/21 10:36

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.4		5.01		mg/Kg			07/20/21 20:41	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-953-1
SDG: 13714

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5370/1-A
Matrix: Solid
Analysis Batch: 5418

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/20/21 11:16	1

Lab Sample ID: LCS 880-5370/2-A
Matrix: Solid
Analysis Batch: 5418

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	247.2		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-5370/3-A
Matrix: Solid
Analysis Batch: 5418

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	247.2		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-953-1
SDG: 13714

HPLC/IC

Leach Batch: 5370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-953-1	FL #51 @ 9 FT 6 IN	Soluble	Solid	DI Leach	
MB 880-5370/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5370/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5370/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 5418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-953-1	FL #51 @ 9 FT 6 IN	Soluble	Solid	300.0	5370
MB 880-5370/1-A	Method Blank	Soluble	Solid	300.0	5370
LCS 880-5370/2-A	Lab Control Sample	Soluble	Solid	300.0	5370
LCSD 880-5370/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5370

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-953-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Client Sample ID: FL #51 @ 9 FT 6 IN
Lab Sample ID: 890-953-1

Date Collected: 07/16/21 08:04
Matrix: Solid
Date Received: 07/16/21 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	5370	07/19/21 11:49	SC	XEN MID
Soluble	Analysis	300.0		1			5418	07/20/21 20:41	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-953-1
Project/Site: Marathon Kyle to Willow
SDG: 13714

Laboratory: Eurofins Xenco, Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-953-1
SDG: 13714

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Marathon Kyle to Willow

Job ID: 890-953-1
SDG: 13714

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-953-1	FL #51 @ 9 FT 6 IN	Solid	07/16/21 08:04	07/16/21 10:36	

Page 808 of 812

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/o Rob Kirk #469-928-5620
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around	
Project Number:	13714	Routine:	☐
Project Location		Rush:	☑
Sampler's Name:	Aaron Rios	Due Date:	3D
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	5.2/5.0	Thermometer ID	
Received Intact:	(Yes) No		2TVM-007
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
FL#5 @ 9Ft 6inches	Soil	7/16/21	8:04 AM		1	✓				

890-953 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U~~ 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Aaron Rios	Clue Cuty	7.16.21 1054	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

Page 809 of 812

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 890-305 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica kramer@eurofinset com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-953-1
Address: 1211 W Florida Ave	Due Date Requested: 7/21/2021			
City: Midland	TAT Requested (days):			
State Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Marathon Kyle to Willow	Project #: 88000073			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FL #51 @ 9 FT 6 IN (890-953-1)	7/16/21	08 04 Mountain		Solid			X	1	

Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by: Clue Cuff 7.16.21	Date/Time:	Company	Received by:	Date/Time: 7/19/21	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Received by OCD: 8/21/2021 12:00:14 AM

Released to Imaging: 12/1/2021 8:29:26 AM

7/21/2021

Page 13 of 15

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-953-1
SDG Number: 13714

Login Number: 953
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-953-1
SDG Number: 13714

Login Number: 953
List Number: 2
Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland
List Creation: 07/19/21 10:21 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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

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

CONDITIONS

Action 43451

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 43451
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2014255492 MARATHON KYLE TO WILLOW STATE LINE, thank you. This closure is approved.	11/30/2021