

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?	<u>39</u> (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.

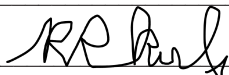
Characterization Report Checklist: <i>Each of the following items must be included in the report.</i> ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ☒ Field data ☒ Data table of soil contaminant concentration data ☒ Depth to water 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.

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

Printed Name: 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: _____

Incident ID	nRM2014255492
District RP	
Facility ID	
Application ID	

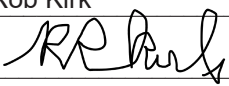
Closure

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:  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: _____

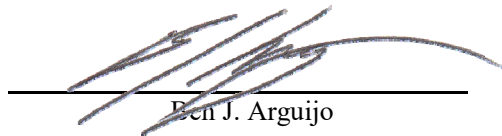
Remediation Summary & Soil Closure Request

Solaris Water Midstream, LLC Marathon Kyle to Willow State Line

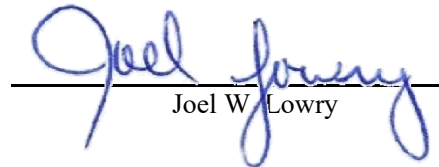
Eddy County, New Mexico
Unit Letter L2, Section 3, Township 25 South, Range 28 East
Latitude 32.1646 North, Longitude 104.0743 West
NMOCD Reference No. nRM2014255492

Prepared By:

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



Ben J. Arguijo



Joel W. Lowry



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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 ☒ Federal ☐ Tribal ☐ Private (Name _____)

Nature and Volume of Release

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ 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?	☒ 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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- ☒ 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'	
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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 delineation 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

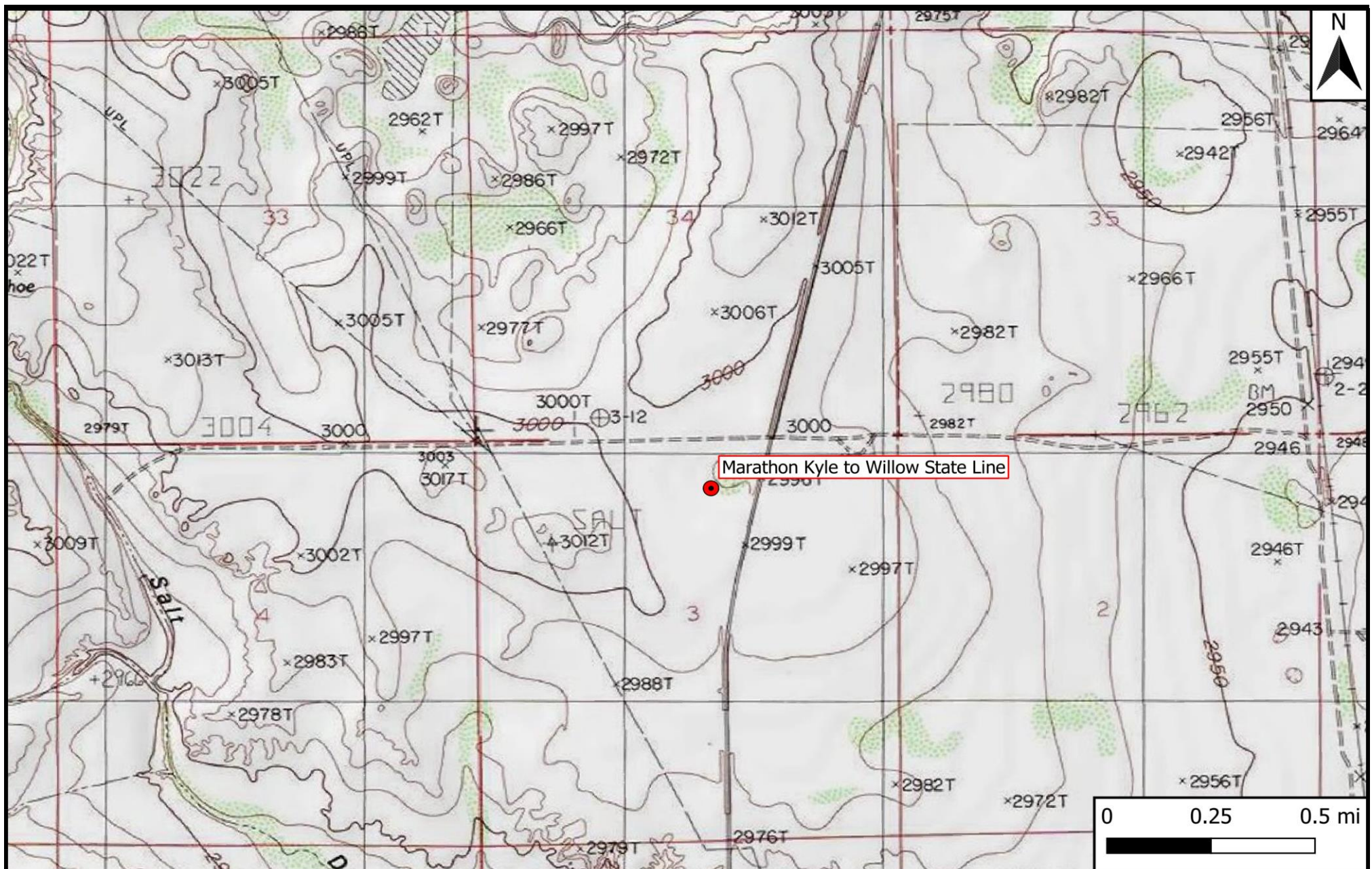
*Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210*

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.

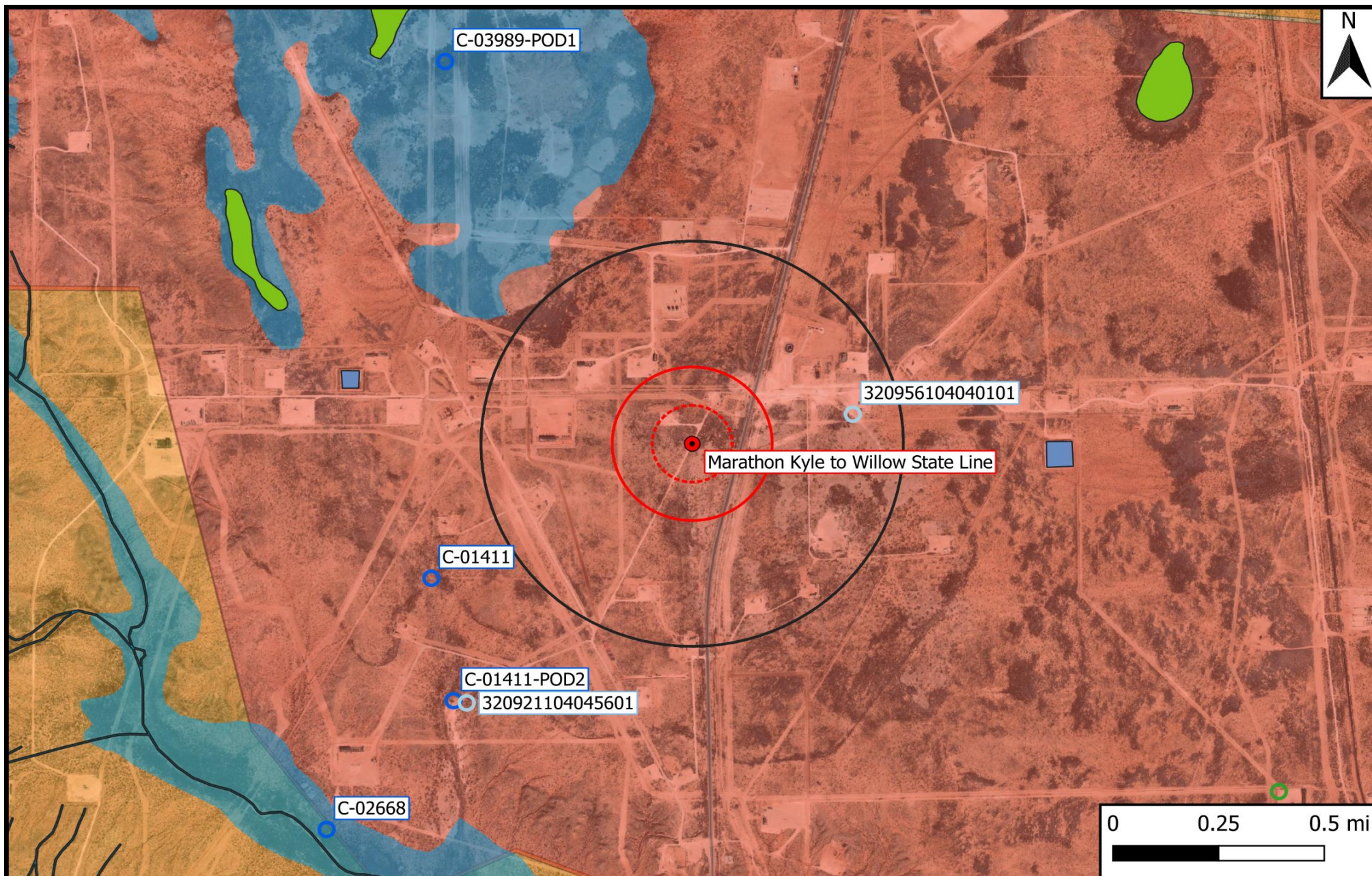


Drafted: bja

Checked: jwl

Date: 7/22/21

Figure 2
Aerial Proximity Map



Legend

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

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

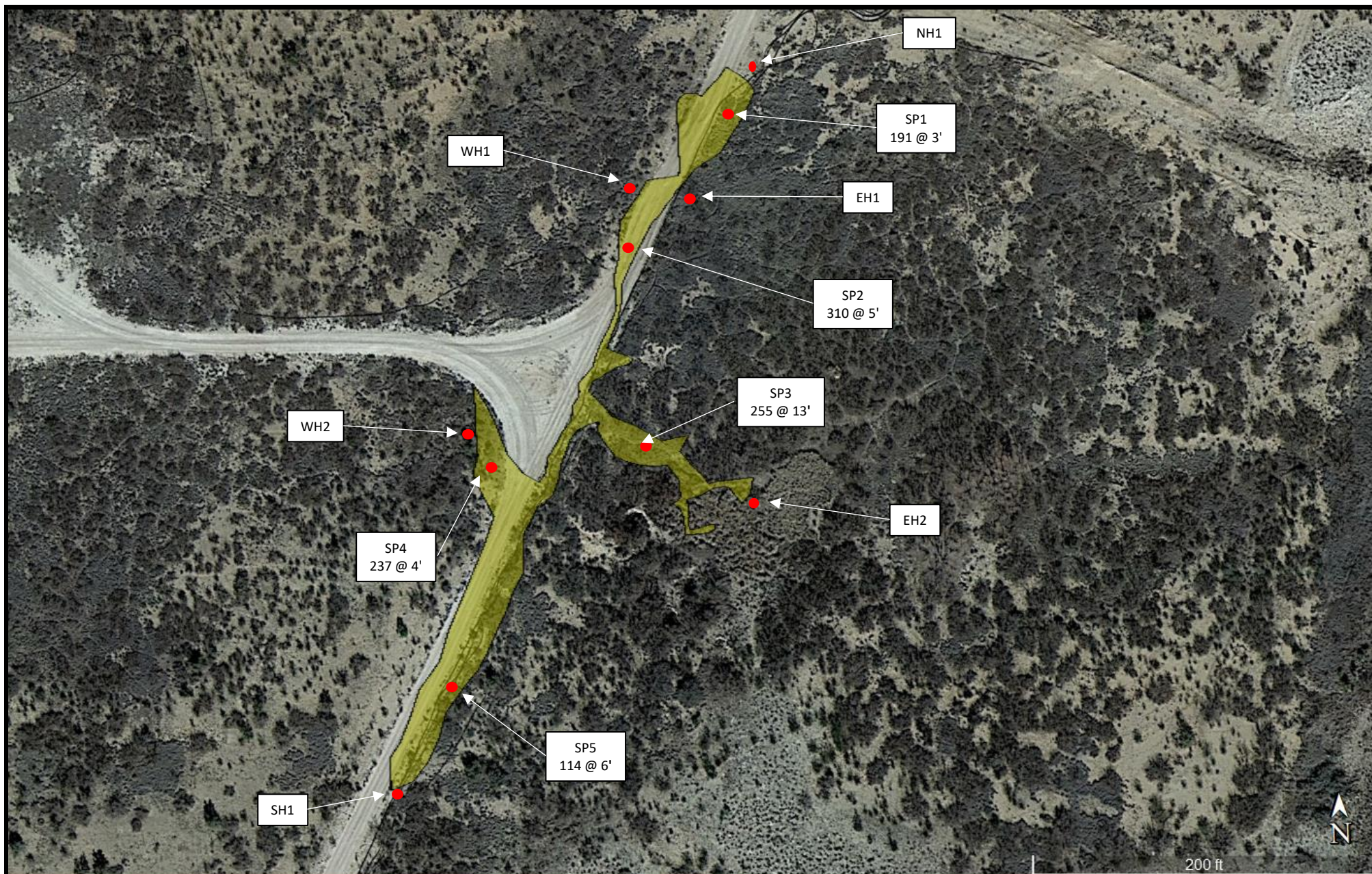


Drafted: bja

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



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
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

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

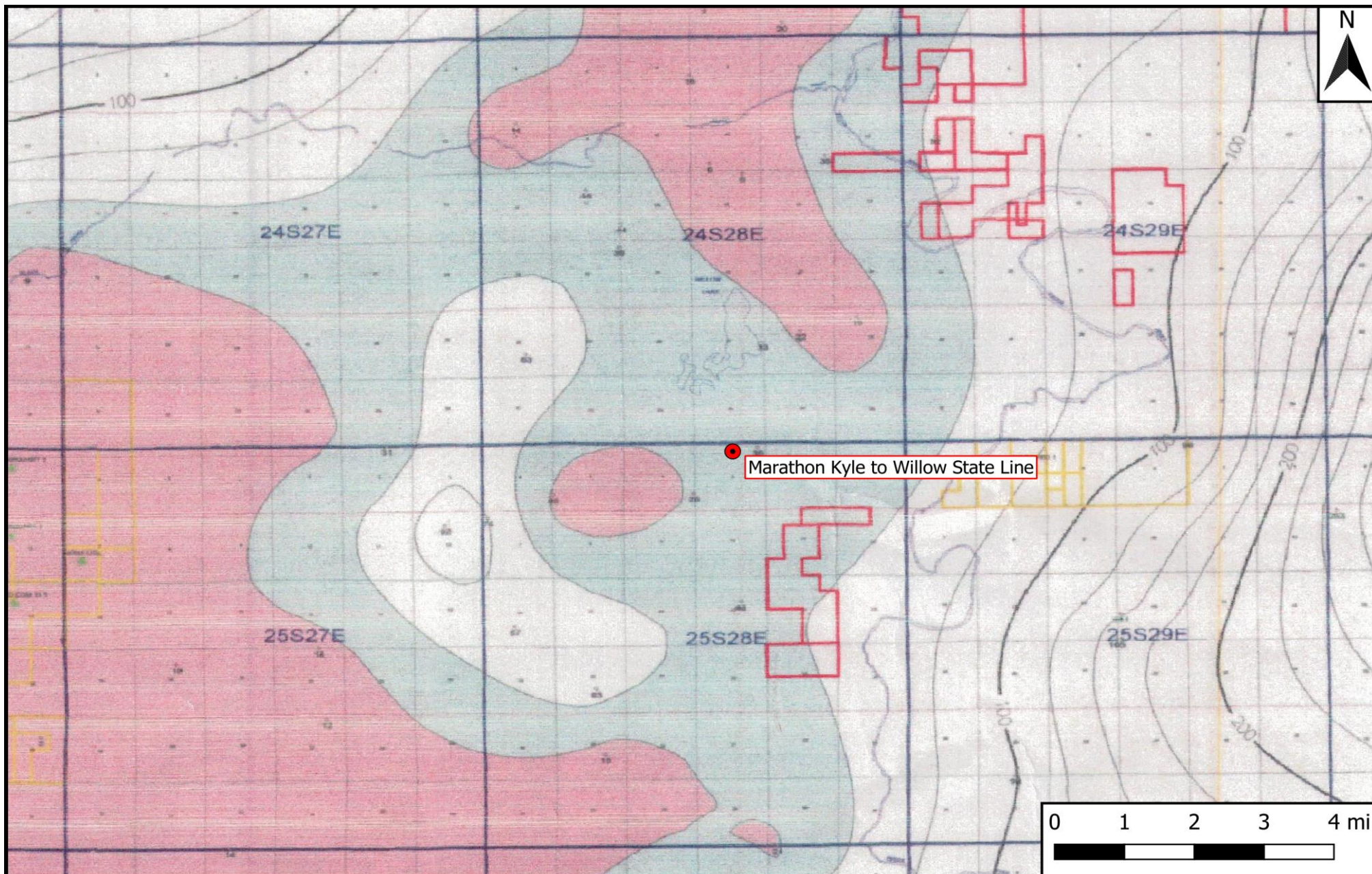
Dash (-): Sample not analyzed for that constituent.

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



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	Tws	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 Rev 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	Tw	Rng	X	Y
2237E	C 01411 POD2	4	2	4	04	25S	28E	586374	3558036 

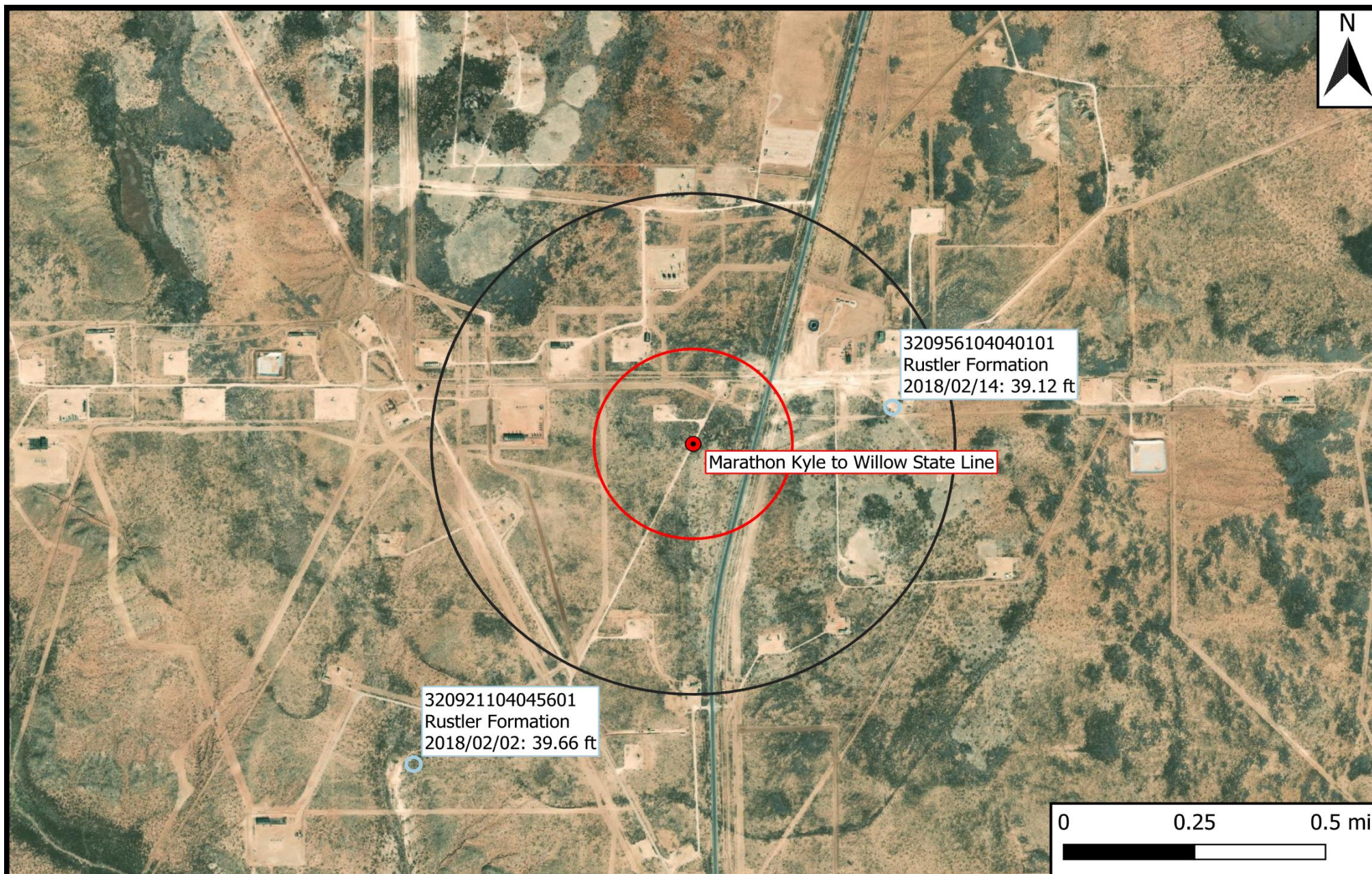
Driller License:	1348	Driller Company:	TAYLOR WATER WELL SERVICE	
Driller Name:	TAYLOR, CLINTON E.E.ENER			
Drill Start Date:	02/09/2020	Drill Finish Date:	02/20/2020	Plug Date:
Log File Date:	02/21/2020	PCW Rev Date:		Source: Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield: 4 GPM
Casing Size:	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



Drafted: bja

Checked: jwl

Date: 7/22/21



National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

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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	A
2013-01-10	21:20 UTC	m	72019	33.56				1	S	USGS	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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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





National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

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Groundwater levels for the Nation

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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	A
2013-01-10	21:00 UTC		m	72019	31.90			1	S	USGS	A
2018-02-14	17:22 UTC		m	72019	39.66			3	S	USGS	A
2021-02-24	19:26 UTC		m	72019	35.00			1	S	USGS	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

8075 42W 11N 33W



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'	—	22484	
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 @ 18'	—	212	
WSW #3 @ 16'	—	996	
WSW #4 @ 18'	—	1,520	424
WSW #5 @ 18'	—	2,296	
WSW #6 @ 18'	—	864	

Sample Point = SP #1 @ ## etc Test Trench = TT #1 @ ## Resamples = SP #1 @ 5b or SW #1b
Floor = FL #1 etc Refusal = SP #1 @ 4'-R Stockpile = Stockpile #1
Sidewall = SW #1 etc Soil Intended to be Deferred = SP #1 @ 4' In-Situ GPS Sample Points, Center of Comp Areas

Odometer
45301
PIN
103

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'	—	376	
FL #11 @ 18'	—	212	
FL #7 @ 20'	—	156	
FL #8 @ 20'	—	456	
FL #9 @ 18'	—	340	
FL #8 @ 20'	—	132	
FL #17 @ 10'	—		
WSW #7 @ 18'	—	1068	
FL #15 @ 12'	—		
WSW #1 @ 12'	—	588	
FL #12 @ 18'	—	804	
FL #13 @ 18'	—	NO	
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	
ESW #3 @ 4' ESW #4 @ 4'	—	1156	
FL #21 @ 4'	—	368	
WSW #3 @ 4' / WSW #3 @ 4'	—	1,076	
ESW B #4 @ 4'	—	196	
ESW B #3 @ 4' / WSW #4 @ 4'	—	120	
ESW B #2 @ 4'	—	196	
FL #22 @ 4'	—	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

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	
ESW # 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'	—	180 180	
FL # 37 @ 4'	—	180	
WSW # 16 @ 4'	—	276	
FL FL # 38 @ 4'	—	688	
FL # 39 @ 4'	—	11252	

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

Sample Log

Date: _____

Project: _____
 Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL # 38 B @ 4 1/6	—	312	
FL # 39 B @ 4 1/6	—	212	
WSW # 17 @ 4	—	860	
FL # 40 @ 4'	—	180	
ESW # 9 @ 4'	—	212	
WSW # 17 B @ 4'	—	276	
ESW # 10 @ 4'	—	180	
WSW # 18 @ 4'	—	580	
FL # 41 @ 4'	—	152	
WSW # 19 @ 4'	—	312	
FL # 42 @ 4'	—	ND	
WSW # 18 B @ 4'	—	580	
WSW # 18 C @ 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 # 15 B @ 5'	—	1760	
FL # 47 @ 5'	—	2528	
FL # 47 @ 6'	—	1252	
ESW # 15 C @ 6'	—	808	
ESW # 15 D @ 7'	—	ND	
FL # 47 @ 7'	—	1000	
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 = 5stockpile #1

GPS Sample Points, Center of Comp Areas

Soil Profile

Date: 10-23-2021

Project: Marathon Kyle to Willow State Line

Project Number: 13714 Latitude: 32.1646 Longitude: -104.0743

Depth (ft. bgs)

Description

1
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40

Topsoil
Red Clayey Sand w/ gypsum

Resilient gypsum / Consolidate

TD

Appendix C

Photographic Log

Photographic Log

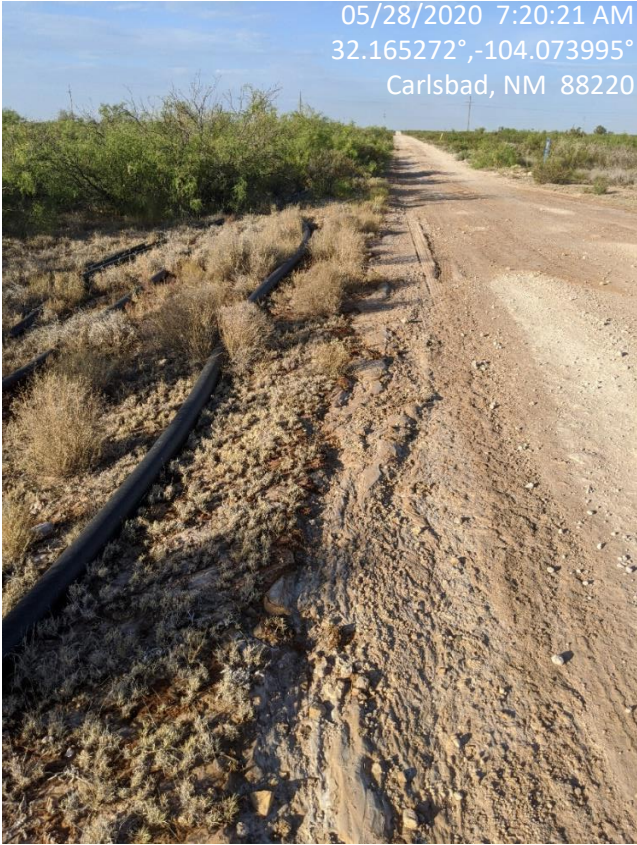
Photo Number: 1	
Photo Direction: South-Southwest	
Photo Description: View of the affected area.	

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



Photographic Log

Photo Number: 7	12/07/2021 10:08 +32.165183,-104.074047 
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photo Number: 8	Network: Jul 22, 2021 at 1:06:23 PM MDT Local: Jul 22, 2021 at 1:06:23 PM MDT 32.165226° N, 104.074054° W Carlsbad NM 88220 United States 
Photo Direction: North-Northeast	
Photo Description: View of the remediated area after backfilling & regrading.	

Photographic Log

Photo Number: 9	Network: Jul 22, 2021 at 1:06:36 PM MDT Local: Jul 22, 2021 at 1:06:36 PM MDT 32.165258° N, 104.073943° W Carlsbad NM 88220 United States 
Photo Direction: South-Southwest	
Photo Description: View of the remediated area after backfilling & regrading.	

Photo Number: 10	Network: Jul 22, 2021 at 1:06:49 PM MDT Local: Jul 22, 2021 at 1:06:49 PM MDT 32.165258° N, 104.073943° W Carlsbad NM 88220 United States 
Photo Direction: Southeast	
Photo Description: View of the remediated area after backfilling & regrading.	

Photographic Log

Photo Number: 11	Network: Jul 22, 2021 at 1:07:07 PM MDT Local: Jul 22, 2021 at 1:07:07 PM MDT 32.165258° N, 104.073943° W Carlsbad NM 88220 United States 
Photo Direction: South-Southwest	
Photo Description: View of the remediated area after backfilling & regrading.	

Photo Number: 12	Network: Jul 22, 2021 at 1:09:40 PM MDT Local: Jul 22, 2021 at 1:09:40 PM MDT 32.165066° N, 104.074027° W Carlsbad NM 88220 United States 
Photo Direction: South-Southwest	
Photo Description: View of the remediated area after backfilling & regrading.	

Photographic Log

Photo Number: 13	Network: Jul 22, 2021 at 1:09:45 PM MDT Local: Jul 22, 2021 at 1:09:45 PM MDT 32.165066° N, 104.074027° W Carlsbad NM 88220 United States 
Photo Direction: West-Southwest	
Photo Description: View of the remediated area after backfilling & regrading.	

Photo Number: 14	Network: Jul 23, 2021 at 12:57:00 PM MDT Local: Jul 23, 2021 at 12:57:00 PM MDT 32.164493° N, 104.074461° W Carlsbad NM 88220 United States 
Photo Direction: North-Northeast	
Photo Description: View of the remediated area after backfilling & regrading.	

Appendix D

Laboratory Analytical Reports

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

<i>Analysis Requested</i>	<i>Lab Id:</i>	686653-001	686653-002	686653-003	686653-004	686653-005	686653-006
	<i>Field Id:</i>	NH 1@ Surface	NH 1@ 1'	EH 1@ Surface	EH 1@ 1'	EH 2@ Surface	NH 2@ 1'
	<i>Depth:</i>		1- ft		1- ft		1- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	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	<i>Extracted:</i>	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
	<i>Analyzed:</i>	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
	<i>Units/RL:</i>	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	<i>Extracted:</i>	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
	<i>Analyzed:</i>	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
	<i>Units/RL:</i>	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	<i>Extracted:</i>	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
	<i>Analyzed:</i>	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
	<i>Units/RL:</i>	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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Date Received in Lab: Fri 01.29.2021 15:34
Report Date: 02.08.2021 16:55
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	686653-007	686653-008	686653-009	686653-010	686653-011	686653-012
	<i>Field Id:</i>	SH 1@ Surface	SH 1@ 1'	WH 1@ Surface	WH 1@ 1'	WH 2@ Surface	WH 2@ 1'
	<i>Depth:</i>		1- ft		1- ft		1- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	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	<i>Extracted:</i>	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
	<i>Analyzed:</i>	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
	<i>Units/RL:</i>	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	<i>Extracted:</i>	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
	<i>Analyzed:</i>	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
	<i>Units/RL:</i>	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	<i>Extracted:</i>	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
	<i>Analyzed:</i>	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
	<i>Units/RL:</i>	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

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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

<i>Analysis Requested</i>	<i>Lab Id:</i>	686653-013	686653-014	686653-015	686653-016	686653-017	686653-018
	<i>Field Id:</i>	SP 1@ Surface	SP 1 @ 3'	SP 2@ Surface	SP 2 @ 5'	SP 3@ Surface	SP 3 @ 4'
	<i>Depth:</i>		3- ft		5- ft		4- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	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	<i>Extracted:</i>	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
	<i>Analyzed:</i>	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
	<i>Units/RL:</i>	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	<i>Extracted:</i>	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
	<i>Analyzed:</i>	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
	<i>Units/RL:</i>	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	<i>Extracted:</i>	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
	<i>Analyzed:</i>	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
	<i>Units/RL:</i>	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

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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

<i>Analysis Requested</i>	<i>Lab Id:</i>	686653-019	686653-020	686653-021	686653-022	686653-023	
	<i>Field Id:</i>	SP 4@ Surface	SP 4 @ 4'	SP 5 @ Surface	SP 5 @ 5'	FL 3 @ 8'	
	<i>Depth:</i>		4- ft		5- ft	8- ft	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	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	<i>Extracted:</i>	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	
	<i>Analyzed:</i>	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	
	<i>Units/RL:</i>	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	<i>Extracted:</i>	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	
	<i>Analyzed:</i>	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	
	<i>Units/RL:</i>	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	<i>Extracted:</i>	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	
	<i>Analyzed:</i>	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	
	<i>Units/RL:</i>	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



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: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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

Project Manager

A Small Business and Minority Company

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

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

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.

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	

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:
Basis: Wet Weight

Seq Number: 3149683

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		

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	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	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	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 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	

Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **NH 1@ 1'**
Lab Sample Id: 686653-002

Matrix: Soil
Date Collected: 01.29.2021 00:00

Date Received: 01.29.2021 15:34
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:
Basis: Wet Weight

Seq Number: 3149683

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		

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	

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	

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		

Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **EH 1@ 1'**
Lab Sample Id: 686653-004

Matrix: Soil
Date Collected: 01.29.2021 00:00

Date Received: 01.29.2021 15:34
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:
Basis: Wet Weight

Seq Number: 3149683

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		

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	

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: 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		

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	

Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **NH 2@ 1'**
Lab Sample Id: 686653-006

Matrix: Soil
Date Collected: 01.29.2021 00:00

Date Received: 01.29.2021 15:34
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:
Basis: Wet Weight

Seq Number: 3149683

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	

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	

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		

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 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	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 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 01:53	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	

Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SH 1@ 1'**
Lab Sample Id: 686653-008

Matrix: Soil
Date Collected: 01.29.2021 00:00

Date Received: 01.29.2021 15:34
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:
Basis: Wet Weight

Seq Number: 3149683

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		

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	

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		

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: 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	

Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **WH 1@ 1'**

Lab Sample Id: 686653-010

Matrix: Soil

Date Collected: 01.29.2021 00:00

Date Received: 01.29.2021 15:34

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:

Basis: Wet Weight

Seq Number: 3149683

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		

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	

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		

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	

Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **WH 2@ 1'**
Lab Sample Id: 686653-012

Matrix: Soil
Date Collected: 01.29.2021 00:00

Date Received: 01.29.2021 15:34
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:
Basis: Wet Weight

Seq Number: 3149683

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		

Certificate of Analytical Results 686653

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	

Certificate of Analytical Results 686653

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'**
Lab Sample Id: 686653-014

Matrix: Soil
Date Collected: 01.29.2021 00:00

Date Received: 01.29.2021 15:34
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:
Basis: Wet Weight

Seq Number: 3149506

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

Seq Number: 3150001

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	

Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SP 1 @ 3'**
Lab Sample Id: 686653-014

Matrix: Soil
Date Collected: 01.29.2021 00:00

Date Received: 01.29.2021 15:34
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:
Basis: Wet Weight

Seq Number: 3149683

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		

Certificate of Analytical Results 686653

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	

Certificate of Analytical Results 686653

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		

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		

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: 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	

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: 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	

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		

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	

Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SP 3 @ 4'**
 Lab Sample Id: 686653-018

Matrix: Soil
 Date Collected: 01.29.2021 00:00

Date Received: 01.29.2021 15:34
 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:
 Basis: Wet Weight

Seq Number: 3149683

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		

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	**

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:
Basis: Wet Weight

Seq Number: 3149683

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		

Certificate of Analytical Results 686653

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	

Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SP 4 @ 4'**
Lab Sample Id: 686653-020

Matrix: Soil
Date Collected: 01.29.2021 00:00

Date Received: 01.29.2021 15:34
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:
Basis: Wet Weight

Seq Number: 3149683

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		

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	

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		

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	

Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **SP 5 @ 5'**
Lab Sample Id: 686653-022

Matrix: Soil
Date Collected: 01.29.2021 00:00

Date Received: 01.29.2021 15:34
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:
Basis: Wet Weight

Seq Number: 3149922

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		

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	

Certificate of Analytical Results 686653

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kyle to Willow State Line

Sample Id: **FL 3 @ 8'**
Lab Sample Id: 686653-023

Matrix: Soil
Date Collected: 01.29.2021 00:00

Date Received: 01.29.2021 15:34
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:
Basis: Wet Weight

Seq Number: 3149922

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		

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

Etech Environmental & Safety Solution, Inc
Marathon Kyle to Willow State Line

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3149506

MB Sample Id: 7720399-1-BLK

Matrix: Solid

LCS Sample Id: 7720399-1-BKS

Prep Method: E300P

Date Prep: 01.30.2021

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

Seq Number: 3149574

MB Sample Id: 7720400-1-BLK

Matrix: Solid

LCS Sample Id: 7720400-1-BKS

Prep Method: E300P

Date Prep: 01.30.2021

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

Seq Number: 3149506

Parent Sample Id: 686653-001

Matrix: Soil

MS Sample Id: 686653-001 S

Prep Method: E300P

Date Prep: 01.30.2021

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

Seq Number: 3149506

Parent Sample Id: 686653-011

Matrix: Soil

MS Sample Id: 686653-011 S

Prep Method: E300P

Date Prep: 01.30.2021

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

Seq Number: 3149574

Parent Sample Id: 686653-021

Matrix: Soil

MS Sample Id: 686653-021 S

Prep Method: E300P

Date Prep: 01.30.2021

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

Seq Number: 3149574

Parent Sample Id: 686654-008

Matrix: Soil

MS Sample Id: 686654-008 S

Prep Method: E300P

Date Prep: 01.30.2021

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
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Etech Environmental & Safety Solution, Inc Marathon Kyle to Willow State Line

Analytical Method: TPH by SW8015 Mod

Seq Number: 3150001

MB Sample Id: 7720760-1-BLK

Matrix: Solid

LCS Sample Id: 7720760-1-BKS

Prep Method: SW8015P

Date Prep: 02.03.2021

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

Seq Number: 3150009

MB Sample Id: 7720763-1-BLK

Matrix: Solid

LCS Sample Id: 7720763-1-BKS

Prep Method: SW8015P

Date Prep: 02.03.2021

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

Seq Number: 3150325

MB Sample Id: 7721013-1-BLK

Matrix: Solid

LCS Sample Id: 7721013-1-BKS

Prep Method: SW8015P

Date Prep: 02.06.2021

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

Seq Number: 3150001

Matrix: Solid
MB Sample Id: 7720760-1-BLK

Prep Method: SW8015P

Date Prep: 02.03.2021

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
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Etech Environmental & Safety Solution, Inc
Marathon Kyle to Willow State Line

Analytical Method: TPH by SW8015 Mod
Seq Number: 3150009

Matrix: Solid
MB Sample Id: 7720763-1-BLK

Prep Method: SW8015P
Date Prep: 02.03.2021

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
Seq Number: 3150325

Matrix: Solid
MB Sample Id: 7721013-1-BLK

Prep Method: SW8015P
Date Prep: 02.06.2021

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
Seq Number: 3150001
Parent Sample Id: 686653-001

Matrix: Soil
MS Sample Id: 686653-001 S

Prep Method: SW8015P
Date Prep: 02.03.2021
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
Seq Number: 3150009
Parent Sample Id: 686580-001

Matrix: Soil
MS Sample Id: 686580-001 S

Prep Method: SW8015P
Date Prep: 02.03.2021
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
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Etech Environmental & Safety Solution, Inc
Marathon Kyle to Willow State Line

Analytical Method: TPH by SW8015 Mod

Seq Number: 3150325

Parent Sample Id: 687429-001

Matrix: Soil

MS Sample Id: 687429-001 S

Prep Method: SW8015P

Date Prep: 02.06.2021

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

Seq Number: 3149683

MB Sample Id: 7720505-1-BLK

Matrix: Solid

LCS Sample Id: 7720505-1-BKS

Prep Method: SW5035A

Date Prep: 02.01.2021

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

Seq Number: 3149922

MB Sample Id: 7720508-1-BLK

Matrix: Solid

LCS Sample Id: 7720508-1-BKS

Prep Method: SW5035A

Date Prep: 02.01.2021

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
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Etech Environmental & Safety Solution, Inc Marathon Kyle to Willow State Line

Analytical Method: BTEX by EPA 8021B

Seq Number: 3149683

Parent Sample Id: 686653-001

Matrix: Soil

MS Sample Id: 686653-001 S

Prep Method: SW5035A

Date Prep: 02.01.2021

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

Seq Number: 3149922

Parent Sample Id: 686653-021

Matrix: Soil

MS Sample Id: 686653-021 S

Prep Method: SW5035A

Date Prep: 02.01.2021

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
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Chain of Custody

Work Order No: 686653

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 Crasibad, 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

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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:	Louington, NM 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	PM@efetchenv.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:		Turn Around		ANALYSIS REQUEST																Preservative Codes				
Project Number:		Routine ☒																		MeOH: Me				
Project Location:		Rush:																		None: NO				
Sampler's Name:		Due Date:																		HNO3: HN				
PO #:		Quote #:																		H2SO4: H2				
																				HCL: HL				
SAMPLE RECEIPT		Temp Blank: Yes ☐ No ☒		Wet Ice: Yes ☐ No ☒		Chlorides BTEX TPH																NaOH: Na		
Temperature (°C):		Thermometer ID		Zn Acetate+ NaOH: Zn																				
Received Intact:		Correction Factor:		TAT starts the day received by the lab, if received by 4:00pm																				
Cooler Custody Seals:		Total Containers:																						
Sample Custody Seals:																								
Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers																	Sample Comments	
	NH1 @ surface	S	1-29-21		-	1																		
	NH1 @ 1'	S	1-29-21		01'	1																		
	EH1 @ surface	S	1-29-21		-	1																		
	EH1 @ 1'	S	1-29-21		1'	1																		
	EH2 @ surface	S	1-29-21		-	1																		
	EH2 @ 1'	S	1-29-21		1'	1																		
	SH1 @ surface	S	1-29-21		-	1																		
	SH1 @ 1'	S	1-29-21		1'	1																		
	WH1 @ surface	S	1-29-21		-	1																		
	WH1 @ 1'	S	1-29-21		1'	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 Ti 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 Ti 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	1	1-29-21 1534			
3					
5					



Chain of Custody

Work Order No: 16086653

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 Crasabad, 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

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Page 3 of 3

Project Manager:	<u>Joe Lowry</u>	Bill to: (if different)	
Company Name:	<u>Etech Environmental & Safety</u>	Company Name:	<u>Solaris</u>
Address:	<u>3100 Plains Hwy</u>	Address:	
City, State ZIP:	<u>Lawrence, NM 88260</u>	City, State ZIP:	
Phone:	<u>575-396-2378</u>	Email:	<u>pm@etechenv.com</u>

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:		<u>Marathon Kyle to Willow State Line</u>		Turn Around		ANALYSIS REQUEST																Preservative Codes							
Project Number:		<u>13714</u>		Routine		☒		Pres. Code																		MeOH: Me			
Project Location:		<u>Rural Eddy county</u>		Rush:																						None: NO			
Sampler's Name:		<u>Miguel Ramirez</u>		Due Date:																						HNO3: HN			
PO #:				Quote #:																						H2SO4: H2			
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No																				HCL: HL	
Temperature (°C):																												NaOH: Na	
Received Intact:		Yes No																										Zn Acetate+ NaOH: Zn	
Cooler Custody Seals:		Yes No N/A																										TAT starts the day received by the lab, if received by 4:00pm	
Sample Custody Seals:		Yes No N/A																											
Total Containers:																													
Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers																	Sample Comments						
	<u>SP5@surface</u>	<u>S</u>	<u>1-29-21</u>		<u>-</u>	<u>1</u>	<u>Chlorides</u>	<u>X</u>	<u>X</u>	<u>X</u>																			
	<u>SP5@5'</u>	<u>S</u>	<u>1-29-21</u>		<u>5'</u>	<u>1</u>	<u>BTEX</u>	<u>X</u>	<u>X</u>	<u>X</u>																			
	<u>FL3@8'</u>	<u>S</u>	<u>1-29-21</u>		<u>8'</u>	<u>1</u>	<u>pH</u>	<u>X</u>																	<u>Chlorides only!</u>				

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 Ti 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 Ti 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
<u>[Signature]</u>	<u>[Signature]</u>	<u>1-29-21 1534h</u>			

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

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

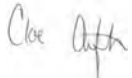
Lab# To: **Midland**

Air Bill No.:

E-Mail: jessica.kramer@eurofinset.com

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

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

Jessica Kramer

Date: 02.02.2021

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
#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
#18 Water VOC samples have zero headspace?	N/A

Samples received in bulk containers.

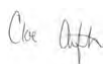
TPH sent to Midland.

*** 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

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

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

Jessica Kramer

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)

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

Project Manager

A Small Business and Minority Company

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

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

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.

Certificate of Analytical Results 689702

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kile To Willow State Line

Sample Id: **SP 3 @ 13'**

Lab Sample Id: 689702-001

Matrix: Soil

Date Collected: 02.25.2021 00:00

Date Received: 03.01.2021 11:10

Sample Depth: 13 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3152238

Date Prep: 03.02.2021 09:15

Prep Method: E300P

% Moisture:
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

Tech: DVM

Analyst: ARM

Seq Number: 3152217

Date Prep: 03.01.2021 11:00

Prep Method: SW8015P

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	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	

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	

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	

Certificate of Analytical Results 689702

Etech Environmental & Safety Solution, Inc, Midland, TX

Marathon Kile To Willow State Line

Sample Id: **SP 5 @ 6'**
Lab Sample Id: 689702-002

Matrix: Soil
Date Collected: 02.25.2021 00:00

Date Received: 03.01.2021 11:10
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:
Basis: Wet Weight

Seq Number: 3152315

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		

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

Etech Environmental & Safety Solution, Inc
Marathon Kile To Willow State Line

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3152238

MB Sample Id: 7722290-1-BLK

Matrix: Solid

LCS Sample Id: 7722290-1-BKS

Prep Method: E300P

Date Prep: 03.02.2021

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

Seq Number: 3152238

Parent Sample Id: 689670-004

Matrix: Soil

MS Sample Id: 689670-004 S

Prep Method: E300P

Date Prep: 03.02.2021

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

Seq Number: 3152238

Parent Sample Id: 689675-001

Matrix: Soil

MS Sample Id: 689675-001 S

Prep Method: E300P

Date Prep: 03.02.2021

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

Seq Number: 3152217

MB Sample Id: 7722322-1-BLK

Matrix: Solid

LCS Sample Id: 7722322-1-BKS

Prep Method: SW8015P

Date Prep: 03.01.2021

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

Seq Number: 3152217

Matrix: Solid

MB Sample Id: 7722322-1-BLK

Prep Method: SW8015P

Date Prep: 03.01.2021

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
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Etech Environmental & Safety Solution, Inc Marathon Kile To Willow State Line

Analytical Method: TPH by SW8015 Mod

Seq Number: 3152217

Parent Sample Id: 689545-001

Matrix: Soil

MS Sample Id: 689545-001 S

Prep Method: SW8015P

Date Prep: 03.01.2021

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

Seq Number: 3152315

MB Sample Id: 7722315-1-BLK

Matrix: Solid

LCS Sample Id: 7722315-1-BKS

Prep Method: SW5035A

Date Prep: 03.02.2021

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

Seq Number: 3152315

Parent Sample Id: 689702-001

Matrix: Soil

MS Sample Id: 689702-001 S

Prep Method: SW5035A

Date Prep: 03.02.2021

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
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

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

Checklist reviewed by:



Jessica Kramer

Date: 03.02.2021

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



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

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

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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.

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Definitions/Glossary

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

Job ID: 890-853-1
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
SQL	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

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

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-853-1
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

Date Collected: 06/22/21 08:00

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	<0.00201	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
Oil 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

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	<0.00201	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

Eurofins Xenco, Carlsbad

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 #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

Eurofins Xenco, Carlsbad

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 #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

Eurofins Xenco, Carlsbad

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 #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

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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

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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

	MS	MS	
Surrogate	%Recovery	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

	MSD	MSD	
Surrogate	%Recovery	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

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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

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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

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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

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

Eurofins Xenco, Carlsbad

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

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

Eurofins Xenco, Carlsbad

Lab Chronicle

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

Job ID: 890-853-1
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
Project/Site: Marathon Kyle to Willow

Job ID: 890-853-1
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	



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) 820-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-8701
 Atlanta, GA (770) 449-8800

 Work Order No: 853

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 ☐ PRF ☐ Brownfield ☐ RR ☐ Superfund ☐
State of Project:	
Reporting:	Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐
Deliverables:	EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow	Turn Around:		ANALYSIS REQUEST												Preservative Codes						
Project Number:	13714	Routine:	☒	 890-853 Chain of Custody												HNO3: HN						
Project Location:		Rush:	☐													H2SO4: H2						
Sampler's Name:	Leonel Mojica	Due Date:														HCL: HL						
PO #:																None: NO						
SAMPLE RECEIPT		Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒													NaOH: Na				
Temperature (°C):	14.4/14.2	Thermometer ID														MeOH: Me						
Received Intact:	Yes No	T-NM-007														Zn Acetate+ NaOH: Zn						
Cooler Custody Seals:	Yes No N/A	Correction Factor:														TAT starts the day received by the lab, if received by 4:30pm						
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													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														

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 Ti Sn U V Zn
 Circle Method(s) and Meta(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti 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. <u>Leonel Mojica</u>	<u>N. Cruz</u>	4/22/21 / 2:53	2.		
3.			4.		
5.			6.		

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-853-1

SDG Number: 13714

Login Number: 853

List Source: Eurofins Xenco, Carlsbad

List Number: 1

Creator: Olivas, Nathaniel

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	

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



Authorized for release by:
6/30/2021 10:56:09 AM

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

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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.

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Definitions/Glossary

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

Job ID: 890-864-1
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
SQL	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

Date Collected: 06/23/21 12:28

Matrix: Solid

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

Date Collected: 06/23/21 12:30

Matrix: Solid

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

Eurofins Xenco, Carlsbad

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

Lab Sample ID: 890-864-2

Date Collected: 06/23/21 12:30

Matrix: Solid

Date Received: 06/23/21 14:54

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)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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	RPD	RPD Limit
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
Oil 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

Eurofins Xenco, Carlsbad

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	

Eurofins Xenco, Carlsbad

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
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
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
Project/Site: Marathon Kyle to Willow

Job ID: 890-864-1
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	

Work Order No:

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

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Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris C/O Rob Kirtz
Address:	3100 Plains Highway	Address:	(409) 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 ☐ PRF ☐ Brownfield ☐ RR ☐ Superfund ☐

State of Project:

Reporting: Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☒

Deliverables: EDD ☐ ADaPT ☐ Other: _____

[illegible]

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 <i>Leonel Abalos</i>	<i>Diego</i>	6/6/23-21 12:54			
3			4		
5			6		

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	

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



Authorized for release by:
6/30/2021 8:38:12 PM

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

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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.

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Definitions/Glossary

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

Job ID: 890-870-1
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

Date Collected: 06/24/21 11:30

Matrix: Solid

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
Oil 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

Date Collected: 06/24/21 11:30

Matrix: Solid

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

Eurofins Xenco, Carlsbad

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

Date Collected: 06/24/21 11:30

Matrix: Solid

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

Date Collected: 06/24/21 11:30

Matrix: Solid

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

Eurofins Xenco, Carlsbad

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)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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

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- 14

Job ID: 890-870-1
SDG: 13714

Lab Sample ID: LCSD 880-4709/3-A	Client Sample ID: Lab Control Sample Dup
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 4725	Prep Batch: 4709

Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: Method Blank
Prep Type: Soluble

Lab Sample ID: LCS 880-4701/2-A
Matrix: Solid
Analysis Batch: 4751

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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.	RPD	RPD
							Limits		Limits
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	

Eurofins Xenco, Carlsbad

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
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

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
Project/Site: Marathon Kyle to Willow

Job ID: 890-870-1
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



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) 565-3443, 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:

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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 ☐	PRF ☐	Brownfield ☐	RRR ☐ Superfund ☐
State of Project:				
Reporting:	Level ☐	Level ☐	PST/US ☐	TRF ☐ Level ☐
Deliverables:	EDD ☐	ADaPT ☐	Other:	

[illegible]

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	Ti	Sn	U	V	Zn
<i>Circle Method(s) and Metal(s) to be analyzed</i>			TCLP / SPLP		6010:	8RCRA		Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	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	
1	Aaron Bios	Oliver		6-24-21	1517
3					
5					

Ver 11/01/2020

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	

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



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

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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.

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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.
α	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'

Lab Sample ID: 890-894-1

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	<0.00200	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'

Lab Sample ID: 890-894-2

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	<0.00202	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

Eurofins Xenco, Carlsbad

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

Date Collected: 07/07/21 00:00

Matrix: Solid

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

Date Collected: 07/07/21 00:00

Matrix: Solid

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

Eurofins Xenco, Carlsbad

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'

Lab Sample ID: 890-894-4

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	<0.00198	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'

Lab Sample ID: 890-894-5

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	<0.00199	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

Eurofins Xenco, Carlsbad

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

Date Collected: 07/07/21 00:00

Matrix: Solid

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

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	<0.00200	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

Eurofins Xenco, Carlsbad

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

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	<0.00200	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

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 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

Eurofins Xenco, Carlsbad

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

Date Collected: 07/07/21 00:00

Matrix: Solid

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

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	<0.00198	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

Eurofins Xenco, Carlsbad

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

Lab Sample ID: 890-894-10

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 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'

Lab Sample ID: 890-894-11

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	<0.00202	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

Eurofins Xenco, Carlsbad

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'

Lab Sample ID: 890-894-11

Date Collected: 07/07/21 00:00

Matrix: Solid

Date Received: 07/07/21 11:25

Sample Depth: - 18

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'

Lab Sample ID: 890-894-12

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 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

Eurofins Xenco, Carlsbad

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'

Lab Sample ID: 890-894-13

Date Collected: 07/07/21 00:00

Matrix: Solid

Date Received: 07/07/21 11:25

Sample Depth: - 19

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'

Lab Sample ID: 890-894-14

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	<0.00199	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

Eurofins Xenco, Carlsbad

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'

Lab Sample ID: 890-894-14

Date Collected: 07/07/21 00:00

Matrix: Solid

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	<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'

Lab Sample ID: 890-894-15

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 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

Eurofins Xenco, Carlsbad

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'

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

Eurofins Xenco, Carlsbad

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'

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: 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'

Lab Sample ID: 890-894-18

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	<0.00199	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

Eurofins Xenco, Carlsbad

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'

Lab Sample ID: 890-894-19

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	<0.00198	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'

Lab Sample ID: 890-894-20

Date Collected: 07/07/21 00:00

Matrix: Solid

Date Received: 07/07/21 11:25

Sample Depth: - 16

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

Eurofins Xenco, Carlsbad

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

Date Collected: 07/07/21 00:00

Matrix: Solid

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

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	<0.00198	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

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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'

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		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

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Surrogate Summary

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)

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

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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	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

Eurofins Xenco, Carlsbad

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	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	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

Eurofins Xenco, Carlsbad

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

	MSD	MSD	
Surrogate	%Recovery	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	MB								
	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 10:12	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	
Oil 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	MB					Prepared	Analyzed	Dil	Fac
	%Recovery	Qualifier	Limits							
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	LCS	LCS							
	Added	Result	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	LCS								
	%Recovery	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	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	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	LCSD								
	%Recovery	Qualifier	Limits							
1-Chlorooctane	87		70 - 130							
o-Terphenyl	91		70 - 130							

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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

Eurofins Xenco, Carlsbad

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

	MS	MS	
Surrogate	%Recovery	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

	MSD	MSD	
Surrogate	%Recovery	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

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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	

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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
Project/Site: Marathon Kyle to Willow

Job ID: 890-894-1
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



Chain of Custody

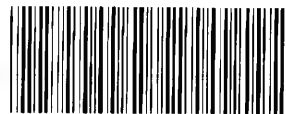
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
 Tampa, FL (813) 620-2000, Tallahassee, FL (850)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

Work Order No: _____

www.xenco.com 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

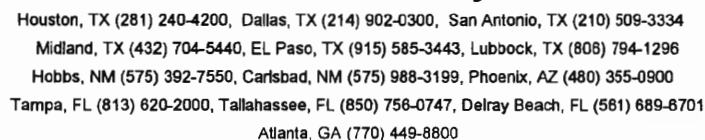
Work Order Comments	
Program:	UST/PST ☐ PRF ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting Level:	Level ☐ PST/US ☐ TRF ☐ Level ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		marathon Kyle to willow		Turn Around		ANALYSIS REQUEST												Preservative Codes							
Project Number:		13714		Routine:		 890-894 Chain of Custody												HNO3: HN							
Project Location:				Rush:														H2SO4: H2							
Sampler's Name:		Aaron Rios		Due Date:														HCL: HL							
PO #:																		None: NO							
SAMPLE RECEIPT		Temp Blank:		(Yes) No		Wet Ice:		(Yes) No														NaOH: Na			
Temperature (°C):		76 / 7.4				Thermometer ID																MeOH: Me			
Received Intact:		(Yes) No		T-NM-007		Correction Factor:		-0.2														Zn Acetate+ NaOH: Zn			
Cooler Custody Seals:		Yes No N/A		Total Containers:																		TAT starts the day received by the lab, if received by 4:30pm			
Sample Custody Seals:		Yes No N/A																							
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#12 @ 2.5m				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	Ti	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	Ti	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	[Signature]	7-7-21 / 11:40	2		
3	[Signature]	7/7/21 11:25	4		
5			6		



Work Order Comments

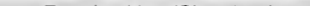
Program: UST/PST ☐ PRF ☐ Brownfield ☐ RR ☐ Superfund ☐

State of Project:

Reporting: Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☒

Deliverables: EDD ☐ ADaPT ☐ Other: _____

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	4				
5					6				



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: _____

www.xenco.com Page 3 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 ☐ PRF ☐ Brownfield ☐ RR ☐ Superfund ☐ State of Project: Reporting: Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐ Deliverables: EDD ☐ ADaPT ☐ Other:				

[illegible]

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	Ti	Sn	U	V	Zn
<i>Circle Method(s) and Metal(s) to be analyzed</i>			TCLP / SPLP 6010: 8RCRA			Sb	As	Ba	Be	B	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U											
																							1631 / 245.1 / 7476 / 7471.11										

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	<i>Aaron Pios</i>		<i>[Signature]</i>	7-7-21 - 10:46	2	<i>[Signature]</i>			
3					4				
5					6				

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	

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



Authorized for release by:
7/15/2021 2:35:55 PM

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

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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.

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Definitions/Glossary

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

Job ID: 890-911-1
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

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	<0.00199	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

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 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

Eurofins Xenco, Carlsbad

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

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 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

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 18:11	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

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

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-911-1
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)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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

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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

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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
Oil 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

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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	

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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

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
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
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
Project/Site: Marathon Kyle to Willow

Job ID: 890-911-1
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	



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: _____

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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:	469-928-6620
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 ☐ PRF ☐ Brownfield ☐ RRF ☐ Superfund ☐
State of Project:	
Reporting:	Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐
Deliverables:	EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around		ANALYSIS REQUEST										Preservative Codes							
Project Number:		Routine: ☒		 890-911 Chain of Custody										HNO3: HN							
Project Location:		Rush: ☐												H2SO4: H2							
Sampler's Name:		Due Date:												HCL: HL							
PO #:														None: NO							
SAMPLE RECEIPT		Temp Blank: ☒ Yes ☐ No		Wet Ice: ☒ Yes ☐ No		Number of Containers/Preservative Chloride E300 BTEX 8021 TPH Modified Ext TPH TX1005										NaOH: Na					
Temperature (°C):		23.8/23.6		Thermometer ID												MeOH: Me					
Received Intact:		☒ Yes ☐ No		Correction Factor:												Zn Acetate+ NaOH: Zn					
Cooler Custody Seals:		Yes ☐ No ☒ N/A		Total Containers:												TAT starts the day received by the lab, if received by 4:30pm					
Sample Custody Seals:		Yes ☐ No ☒ N/A																			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005											Sample Comments
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 #26 @ 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												

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 Ti 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 Ti 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	Joel Lowry	7-8-21 1532	2		
3			4		
5			6		

1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing
America

7/15/2021

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Client Information (Sub Contract Lab)				Sampler Lab PM Kramer Jessica		Carrier Tracking No(s)		SOC 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				Address: 1211 W Florida Ave		City: Midland		State, Zip: TX, 79701		Phone: 432-704-5440(Tel)	
Email				Project Name: Marathon Kyle to Willow		Project #: 86000073		SSOW#:		Job #: 890-911-1	
Due Date Requested 7/14/2021				TAT Requested (days)		PO #:		WO #:		Analysis Requested	
Field Filtered Sample (Yes or No)				Perform MS/MSD (Yes or No)		801EMOD_MM/8016NM_S_Prep Full TPH		300_ORGFM_28D/D/_LEACH Chloride		8021B/6036FP_Calc Mid - BTEX	
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)	
FL # 24 @ 5 (890-911-1)				7/8/21		14 30 Mountain		Solid		1	
FL #23 @4 (890-911-2)				7/8/21		14 30 Mountain		Solid		1	
FL #26 @ 4 (890-911-3)				7/8/21		14 30 Mountain		Solid		1	
WSW #6 @4 (890-911-4)				7/8/21		14 30 Mountain		Solid		1	
ESW #5 @5 (890-911-5)				7/8/21		14 30 Mountain		Solid		1	
Preservation Code:											
Special Instructions/Note:											
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 compliance 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: <i>Cice Cup 7.9.21</i>				Date/Time:		Company		Received by: <i>[Signature]</i>			
Relinquished by:				Date/Time:		Company		Received by:			
Relinquished by:				Date/Time:		Company		Received by:			
Custody Seals Intact: Δ Yes Δ No				Custody Seal No		Cooler Temperature(s) °C and Other Remarks					

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	

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



Authorized for release by:
7/16/2021 7:37:56 PM

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

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results through

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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.

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Definitions/Glossary

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

Job ID: 890-919-1
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.
α	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 8.0° 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

Lab Sample ID: 890-919-1

Date Collected: 07/09/21 13:00

Matrix: Solid

Date Received: 07/09/21 15:21

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

Lab Sample ID: 890-919-2

Date Collected: 07/09/21 13:00

Matrix: Solid

Date Received: 07/09/21 15:21

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

Lab Sample ID: 890-919-2

Date Collected: 07/09/21 13:00

Matrix: Solid

Date Received: 07/09/21 15:21

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
Oil 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

Lab Sample ID: 890-919-3

Date Collected: 07/09/21 13:00

Matrix: Solid

Date Received: 07/09/21 15:21

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
Oil 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

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 #10 @ 4

Lab Sample ID: 890-919-4

Date Collected: 07/09/21 13:00

Matrix: Solid

Date Received: 07/09/21 15:21

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

Lab Sample ID: 890-919-5

Date Collected: 07/09/21 13:00

Matrix: Solid

Date Received: 07/09/21 15:21

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

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 # 6 @ 4

Lab Sample ID: 890-919-5

Date Collected: 07/09/21 13:00

Matrix: Solid

Date Received: 07/09/21 15:21

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
Oil 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

Lab Sample ID: 890-919-6

Date Collected: 07/09/21 13:00

Matrix: Solid

Date Received: 07/09/21 15:21

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
Oil 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

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: FL #30 @4

Lab Sample ID: 890-919-7

Date Collected: 07/09/21 13:00

Matrix: Solid

Date Received: 07/09/21 15:21

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

Lab Sample ID: 890-919-8

Date Collected: 07/09/21 13:00

Matrix: Solid

Date Received: 07/09/21 15:21

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

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: FL #32 @4

Lab Sample ID: 890-919-8

Date Collected: 07/09/21 13:00

Matrix: Solid

Date Received: 07/09/21 15:21

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
Oil 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

Lab Sample ID: 890-919-9

Date Collected: 07/09/21 13:00

Matrix: Solid

Date Received: 07/09/21 15:21

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
Oil 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

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: FL #31 @4

Lab Sample ID: 890-919-10

Date Collected: 07/09/21 13:00

Matrix: Solid

Date Received: 07/09/21 15:21

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

Lab Sample ID: 890-919-11

Date Collected: 07/09/21 13:30

Matrix: Solid

Date Received: 07/09/21 15:21

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

Lab Sample ID: 890-919-11

Date Collected: 07/09/21 13:30

Matrix: Solid

Date Received: 07/09/21 15:21

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
Oil 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

Lab Sample ID: 890-919-12

Date Collected: 07/09/21 13:30

Matrix: Solid

Date Received: 07/09/21 15:21

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
Oil 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

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 #11 @4

Lab Sample ID: 890-919-13

Date Collected: 07/09/21 13:30

Matrix: Solid

Date Received: 07/09/21 15:21

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

Lab Sample ID: 890-919-14

Date Collected: 07/09/21 13:30

Matrix: Solid

Date Received: 07/09/21 15:21

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

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: 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
Oil 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
Oil 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

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 #7 @ 4

Lab Sample ID: 890-919-16

Date Collected: 07/09/21 13:30

Matrix: Solid

Date Received: 07/09/21 15:21

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
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
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

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 880-5106/2-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

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
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

Matrix: Solid

Analysis Batch: 5115

Client Sample ID: FL #29 @4

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 5115

Client Sample ID: FL #29 @4

Prep Type: Total/NA

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

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
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

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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: 890-919-1 MS

Matrix: Solid

Analysis Batch: 5260

Client Sample ID: ESW #8 @4

Prep Type: Total/NA

Prep Batch: 5137

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -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	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								
<i>o</i> -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	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

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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: 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

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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

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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

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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
Project/Site: Marathon Kyle to Willow

Job ID: 890-919-1
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	



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 (808) 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: _____

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
Address:	3100 Plains Highway	Address:	(469) 988-5620
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 ☐ PRF ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐
Deliverables:	EDD ☐ ADaPT ☐ Other:

Project Name: Marathon Kyle to Willow		Turn Around		ANALYSIS REQUEST										Preservative Codes						
Project Number: 13914		Routine: ☒		 890-919 Chain of Custody										HNO3: HN						
Project Location		Rush: ☐												H2SO4: H2						
Sampler's Name: Aaron Rios		Due Date:												HCL: HL						
PO #:														None: NO						
SAMPLE RECEIPT Temp Blank: Yes ☒ No ☐ Wet Ice: Yes ☒ No ☐ Temperature (°C): 8.2 / 8.0 Thermometer ID: 7 NM-007 Received Intact: Yes ☒ No ☐ Cooler Custody Seals: Yes ☒ No ☐ Correction Factor: -0.2 Sample Custody Seals: Yes ☒ No ☐ Total Containers:		Number of Containers/Preservative												NaOH: Na MeOH: Me Zn Acetate+ NaOH: Zn TAT starts the day received by the lab, if received by 4:30pm						
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005											Sample Comments
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												

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 Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sh As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti 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	Clive Creek	7-9-21 1521			
3			4		
5			6		



Chain of Custody

Work Order No: _____

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) 758-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8800

www.xenco.com Page 2 of 2

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 ☐ PRF ☐ Brownfield ☐ RR ☐ Superfund ☐
State of Project:	
Reporting:	Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐
Deliverables:	EDD ☐ ADaPT ☐ Other:

Project Name:	Marathon Kyle to Willow		Turn Around:	ANALYSIS REQUEST												Preservative Codes								
Project Number:	13714		Routine:													HNO3: HN								
Project Location:			Rush:													H2SO4: H2								
Sampler's Name:	Aaron Rios		Due Date:													HCL: HL								
PO #:																None: NO								
SAMPLE RECEIPT				Temp Blank:	Yes	No	Wet Ice:	Yes	No													NaOH: Na		
Temperature (°C):						Thermometer ID:																MeOH: Me		
Received Intact:				Yes	No	Correction Factor:																Zn Acetate+ NaOH: Zn		
Cooler Custody Seals:				Yes	No	N/A	Total Containers:																TAT starts the day received by the lab, if received by 4:30pm	
Sample Custody Seals:				Yes	No	N/A																		
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 Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed: TGLP / SPLP 8010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti 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	ACK Rios	7-9-21 1521	2		
3			4		
5			6		

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	

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



Authorized for release by:
7/15/2021 9:04:17 PM

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

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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.

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Definitions/Glossary

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

Job ID: 890-940-1
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, 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.
α	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 4.3° C.

Receipt Exceptions

The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): 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

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

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: 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: 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

Lab Sample ID: 890-940-3

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 18:39	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

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: 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

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: 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

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

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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

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

Lab Sample ID: 890-940-10

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 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

Lab Sample ID: 890-940-11

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	<0.00198	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

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: 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

Lab Sample ID: 890-940-13

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	<0.00199	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

Lab Sample ID: 890-940-14

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	<0.00199	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

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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

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
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
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

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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

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)	<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

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	<0.00202	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

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 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

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 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

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: 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

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

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	<0.00201	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

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#34@4

Lab Sample ID: 890-940-22

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	<0.00200	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

Lab Sample ID: 890-940-23

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	<0.00200	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

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#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
Oil 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
Oil 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

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	<0.00201	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

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	<0.00200	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

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)	<49.7	U	49.7		mg/Kg		07/14/21 15:29	07/15/21 02:21	1
Oil 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

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	<0.00202	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
Oil 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

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#40@4

Lab Sample ID: 890-940-28

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	<0.00202	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

Lab Sample ID: 890-940-29

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	<0.00200	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

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#41@4

Lab Sample ID: 890-940-29

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 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

Lab Sample ID: 890-940-30

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 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

Lab Sample ID: 890-940-31

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 09:20	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

Lab Sample ID: 890-940-32

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	<0.00200	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

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#44@4

Lab Sample ID: 890-940-32

Date Collected: 07/13/21 13:30

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 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

Lab Sample ID: 890-940-33

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	<0.00200	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

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#46@4

Lab Sample ID: 890-940-34

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	<0.00200	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

Lab Sample ID: 890-940-35

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	<0.00200	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

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#47@9

Lab Sample ID: 890-940-35

Date Collected: 07/13/21 13:30

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 15:29	07/15/21 05:47	1
Oil 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

Lab Sample ID: 890-940-36

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 09:20	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
Oil 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

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 09:20	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

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 09:20	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

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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

Date Collected: 07/13/21 13:30

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 15:29	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

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	<0.00199	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

Lab Sample ID: 890-940-40

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	<0.00200	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

Lab Sample ID: 890-940-41

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	<0.00200	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

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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

Lab Sample ID: 890-940-41

Date Collected: 07/13/21 13:30

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 16:17	07/15/21 13:25	1
Oil 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

Lab Sample ID: 890-940-42

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	<0.00200	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
Oil 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

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: 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

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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

Lab Sample ID: 890-940-44

Date Collected: 07/13/21 13:30

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 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

Lab Sample ID: 890-940-45

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 13:48	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		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
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
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+

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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					

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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
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
SDG: 13714

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-5142/2-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
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

Matrix: Solid

Analysis Batch: 5206

Client Sample ID: Method Blank

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 5206

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

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
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

Eurofins Xenco, Carlsbad

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

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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		

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

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

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

	MS	MS	
Surrogate	%Recovery	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

	MB	MB								
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 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	
Oil 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	

	MB	MB								
Surrogate	%Recovery	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

	Spike	LCS	LCS							
Analyte	Added	Result	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		

	LCS	LCS	
Surrogate	%Recovery	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

	Spike	LCSD	LCSD							
Analyte	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	119		70 - 130

Eurofins Xenco, Carlsbad

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
Oil 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

Eurofins Xenco, Carlsbad

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

	LCS	LCS	
Surrogate	%Recovery	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

	LCSD	LCSD	
Surrogate	%Recovery	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

	MS	MS	
Surrogate	%Recovery	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

	MSD	MSD	
Surrogate	%Recovery	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

Eurofins Xenco, Carlsbad

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

	MS	MS	
Surrogate	%Recovery	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

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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
	MSD	MSD									
Surrogate	%Recovery	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

	MB	MB								
Analyte	Result	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

	Spike	LCS	LCS					%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%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

	Spike	LCSD	LCSD					%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	133		249	388.2		mg/Kg		102	90 - 110		

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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	

Eurofins Xenco, Carlsbad

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

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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	5142

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

Eurofins Xenco, Carlsbad

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	

Eurofins Xenco, Carlsbad

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	

Eurofins Xenco, Carlsbad

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	

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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

Eurofins Xenco, Carlsbad

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
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

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

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

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Lab Chronicle

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

Job ID: 890-940-1
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

Eurofins Xenco, Carlsbad

Lab Chronicle

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

Job ID: 890-940-1
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

Eurofins Xenco, Carlsbad

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

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

Eurofins Xenco, Carlsbad

Lab Chronicle

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

Job ID: 890-940-1
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
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

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

Eurofins Xenco, Carlsbad

Lab Chronicle

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

Job ID: 890-940-1
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

Eurofins Xenco, Carlsbad

Lab Chronicle

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

Job ID: 890-940-1
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
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

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
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
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
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
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
Project/Site: Marathon Kyle to Willow

Job ID: 890-940-1
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	



Chain of Custody

Work Order No: _____

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 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
Address:	3100 Plains Highway	Address:	469-928-5600
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 ☐ PRF ☐ Brownfield ☐ RR ☐ Superfund ☐
State of Project:	
Reporting:	Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:	Marathon Kyle to Willow		Turn Around											Preservative Codes
Project Number:	13714		Routine:											HNO3: HN
Project Location			Rush:											H2SO4: H2
Sampler's Name:	Aaron Rios		Due Date:	2/4/18										HCL: HL
PO #:														None: NO
SAMPLE RECEIPT Temp Blank: Yes ☐ No ☒ Wet Ice: Yes ☐ No ☒ Temperature (°C): 4.5 / 4.3 Thermometer ID: 2 NM-007 Received Intact: Yes ☒ No ☐ Cooler Custody Seals: Yes ☐ No ☒ N/A Correction Factor: _____ Sample Custody Seals: Yes ☐ No ☒ N/A Total Containers: _____				 890-940 Chain of Custody										NaOH: Na
														Zn Acetate + NaOH: Zn
														TAT starts the day received by the lab, if received by 4:30pm
														Sample Comments

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											

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 Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 8010: 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti 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 City	7-13-21 1537			
3					
5					



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: _____

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Page 2 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 ☐ PRF ☐ Brownfield ☐ RR ☐ Superfund ☐
State of Project:	
Reporting:	Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐
Deliverables:	EDD ☐ ADAPT ☐ Other: _____

Project Name:		Turn Around		ANALYSIS REQUEST												Preservative Codes			
Project Number:		Routine: ☐														HNO3: HN			
Project Location:		Rush: ☒														H2SO4: H2			
Sampler's Name:		Due Date:														HCL: HL			
PO #:		24H														None: NO			
SAMPLE RECEIPT		Temp Blank: Yes No		Wet Ice: Yes No														NaOH: Na	
Temperature (°C):		Thermometer ID														MeOH: Me			
Received Intact: Yes No		Correction Factor:														Zn Acetate + NaOH: Zn			
Cooler Custody Seals: Yes No N/A		Total Containers:														TAT starts the day received by the lab, if received by 4:30pm			
Sample Custody Seals: Yes No N/A																			
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										

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	Ti	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	Ti	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	Cia Curb	7-13-21 1:53 PM			
3					
5					



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: _____

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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 ☐ PRF ☐ Brownfield ☐ RR ☐ Superfund ☐
State of Project:	
Reporting:	Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐
Deliverables:	EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around:		ANALYSIS REQUEST												Preservative Codes						
Project Number:		Routine: ☐														HNO3: HN						
Project Location:		Rush: ☒														H2SO4: H2						
Sampler's Name:		Due Date:														HCL: HL						
PO #:																None: NO						
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet lee:	Yes No													NaOH: Na				
Temperature (°C):				Thermometer ID														MeOH: Me				
Received Intact:		Yes No		Correction Factor:														Zn Acetate+ NaOH: Zn				
Cooler Custody Seals:		Yes No N/A		Total Containers:														TAT starts the day received by the lab, if received by 4:30pm				
Sample Custody Seals:		Yes No N/A																				
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@ 4# 6 inch	Soil	7-13-21	1:00 PM		1	X	X	X														
FL#39@ 4# 6 inch	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	Ti	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	Ti	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	Clay Call	7-13-21 1538			
3					
5					



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

Work Order No: _____

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Project Manager:	Joel Lowry	Bill to: (if different)	Solaris
Company Name:	Etech Environmental & Safety	Company Name:	Solaris Ob 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 ☐ PRF ☐ Brownfield ☐ RR ☐ Superfund ☐
State of Project:	
Reporting:	Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐
Deliverables:	EDD ☐ ADAPt ☐ Other:

Project Name:		Marathon Kyle to Willow		Turn Around		ANALYSIS REQUEST												Preservative Codes					
Project Number:		13714		Routine:														HNO3: HN					
Project Location:				Rush:														H2SO4: H2					
Sampler's Name:		Aaron Rios		Due Date:														HCL: HL					
PO #:																		None: NO					
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No														NaOH: Na	
Temperature (°C):						Thermometer ID																MeOH: Me	
Received Intact:		Yes No																				Zn Acetate+ NaOH: Zn	
Cooler Custody Seals:		Yes No N/A		Correction Factor:																		TAT starts the day received by the lab, if received by 4:30pm	
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											Sample Comments		
FL#43 @ 4'		Soil	7-13-21	1:30 PM		1	X	X	X														
FL#44 @ 4'		Soil	7-13-21	1:30 PM		1	X	X	X														
FL#45 @ 4'		Soil	7-13-21	1:30 PM		1	X	X	X														
FL#46 @ 4'		Soil	7-13-21	1:30 PM		1	X	X	X														
FL#47 @ 9'		Soil	7-13-21	1:30 PM		1	X	X	X														
FL#48 @ 9'		Soil	7-13-21	1:30 PM		1	X	X	X														
FL#49 @ 9'		Soil	7-13-21	1:30 PM		1	X	X	X														
FL#50 @ 9'		Soil	7-13-21	1:30 PM		1	X	X	X														
FL#51 @ 9'		Soil	7-13-21	1:30 PM		1	X	X	X														
FL#52 @ 9'		Soil	7-13-21	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	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA		Sh	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	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	Clare Guffy	7-13-21 1538			
3			4		
5			6		



Chain of Custody Record



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America

7/15/2021

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Client Information (Sub Contract Lab)		Sampler:		Lab PM Kramer, Jessica		Carrier Tracking No(s).		COC No 890-301 1																									
Client Contact.		Phone:		E-Mail jessica.kramer@eurofinset.com		State of Origin: New Mexico		Page Page 1 of 5																									
Shipping/Receiving				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		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:																							
City: Midland		TAT Requested (days):																															
State Zip: TX, 79701		PO #:																															
Phone 432-704-5440(Tel)		WO #:																															
Email:		Project #: 88000073																															
Project Name Marathon Kyle to Willow		SSOW#:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8015MOD_NMI/8015NM_S_Prep Full TPH		300_ORGFM_28D/DLLEACH Chloride		8021B/6035FP_Calc Mid - BTEX		Total Number of containers																			
Site:																																	
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_NMI/8015NM_S_Prep Full TPH		300_ORGFM_28D/DLLEACH Chloride		8021B/6035FP_Calc Mid - BTEX		Total Number of containers		Special Instructions/Note:											
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 compliance 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: <i>Claudia 7-13-21</i>										Date/Time				Company				Received by: <i>[Signature]</i>				Date/Time: <i>7-20-21 11:30 AM</i>				Company							
Relinquished by:										Date/Time				Company				Received by:				Date/Time				Company							
Relinquished by:										Date/Time				Company				Received by:				Date/Time				Company							
Custody Seals Intact: Yes No										Custody Seal No										Cooler Temperature(s) °C and Other Remarks													

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America

7/15/2021

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Chain of Custody Record

7/15/2021

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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		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:											
City Midland		TAT Requested (days)																	
State Zip TX, 79701		PO #:		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/8035FP_Calc Mid - BTEX				Total Number of containers											
Phone 432-704-5440(Tel)																			
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)											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 our 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 compliance 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: <i>Clareaux 7/13/21</i>			Date/Time			Company			Received by: <i>[Signature]</i>			Date/Time: <i>7-10-21 11:30 AM</i>			Company				
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													
△ Yes △ No																			

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	

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



Authorized for release by:
7/21/2021 1:34:09 PM

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

LINKS

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results through

TotalAccess

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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.

Table of Contents

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QC Sample Results	6
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Definitions/Glossary

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

Job ID: 890-953-1
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.

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Client Sample Results

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

Job ID: 890-953-1
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
Project/Site: Marathon Kyle to Willow

Job ID: 890-953-1
SDG: 13714

Client Sample ID: FL #51 @ 9 FT 6 IN
Date Collected: 07/16/21 08:04
Date Received: 07/16/21 10:36

Lab Sample ID: 890-953-1
Matrix: Solid

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
Project/Site: Marathon Kyle to Willow

Job ID: 890-953-1
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	

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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

Work Order No: _____

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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

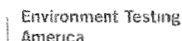
Work Order Comments	
Program:	UST/PST ☐ PRF ☐ Brownfield ☐ RR ☐ Superfund ☐
State of Project:	
Reporting:	Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		Marathon Kyle to Willow		Turn Around		ANALYSIS REQUEST										Preservative Codes									
Project Number:		13714		Routine:												HNO3: HN									
Project Location				Rush:												H2SO4: H2									
Sampler's Name:		Aaron Rios		Due Date:												HCL: HL									
PO #:																None: NO									
SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☐		Wet Ice:		Yes ☒ No ☐												NaOH: Na					
Temperature (°C):		5.2/5.0		Thermometer ID												MeOH: Me									
Received Intact:		Yes ☒ No ☐		Correction Factor:												Zn Acetate+ NaOH: Zn									
Cooler Custody Seals:		Yes ☒ No ☐ N/A		Total Containers:												TAT starts the day received by the lab, if received by 4:30pm									
Sample Custody Seals:		Yes ☒ No ☐ N/A																							
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#51 @ 9ft birches 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 Ti 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 Ti 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	Joe Kirk	7-16-21 1034			
3					
5					



7/21/2021

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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	