

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2030243926
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Endeavor Energy Resources, LP	OGRID	190595
Contact Name	Teffanie Fawks	Contact Telephone	432-262-4203
Contact email	teffanies@eeronline.com	Incident # (assigned by OCD)	
Contact mailing address	110 N. Marienfel, Suite 200, Midland, TX 79706		

Location of Release Source

Latitude 33.61870 Longitude -103.55992
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Conoco #1 TB	Site Type	Tank Battery
Date Release Discovered	4/29/2020	API# (if applicable)	NA

Unit Letter	Section	Township	Range	County
L	15	8S	33E	Chaves

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Seed Family Ranch, LLC)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) <u>7.2</u>	Volume Recovered (bbls) <u>0</u>
☒ Produced Water	Volume Released (bbls) <u>232.2</u>	Volume Recovered (bbls) <u>0</u>
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was attributed to the failure of a flange on a 2-Inch pipeline.

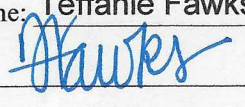
State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? A release of over 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? No, notice was given on 5/1/2020, Joel Lowry, Jim Griswold, 5/1/2020, phone message	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: <u>Teffanie Fawks</u> Signature: <u></u> email: <u>teffanies@eeronline.com</u>	Title: <u>Environmental Supervisor</u> Date: <u>10/20/20</u> Telephone: <u>432-262-4203</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>10/28/2020</u>	

CONOZO #1 TB

NRM2030243926



Volume Calculation

ID	Area (Ft ²)	Depth (Ft)	%Porosity/ Saturation	Volume (Ft ³)	Volume (bbls)
SP #1-SP #4	2,240	2.00	0.2	896.00	159.6
SP #5	560	4.00	0.2	448.00	79.8

Volume of Liquid Remaining in Soil:	239	bbls
Volume Recovered:	0	bbls
Total Volume:	239	bbls
Oil (Approximate)	3.0	%
Volume of Oil Released:	7.2	bbls
Volume of Water Released:	232.2	bbls
Volume of Oil Recovered:	0.0	
Volume of Water Recovered:	0.0	

Incident ID	NRM2030243926
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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>130 Ft.</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: *Each of the following items must be included in the report.*

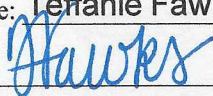
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile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

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

State of New Mexico
Oil Conservation Division

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

Printed Name: Teffanie FawksTitle: Environmental TechnicianSignature: Date: 10/20/20email: teffanies@eeronline.comTelephone: 432-262-4203**OCD Only**Received by: Ramona MarcusDate: 10/28/2020

CONVO #1 TB

Incident ID	NRM2030243926
District RP	
Facility ID	
Application ID	

Remediation Plan

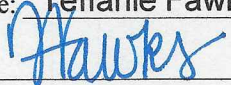
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Teffanie FawksTitle: Environmental TechnicianSignature: Date: 10/20/20email: teffanies@eeronline.comTelephone: 432-262-4203**OCD Only**Received by: Ramona MarcusDate: 10/28/2020☐ Approved☐ Approved with Attached Conditions of Approval☐ Denied☐ Deferral Approved

Signature: _____

Date: _____

CONDZO #1 TB

State of New Mexico
Oil Conservation Division

Incident ID	NRM2030243926
District RP	
Facility ID	
Application ID	

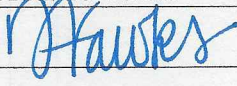
Closure

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: Teffanie FawksTitle: HSE Environmental Field TechSignature: Date: 10/20/20email: teffanies@eeronline.comTelephone: 432-262-4203**OCD Only**Received by: Ramona MarcusDate: 10/28/2020

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: _____

NRM2030243926

Remediation Summary and Soil Closure Request

Endeavor Energy Resources, LP Conoco #1

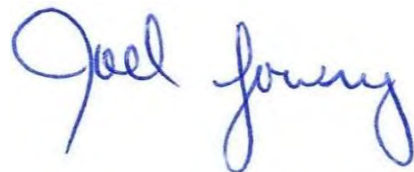
Chaves County, New Mexico
Unit Letter L, Section 15, Township 8 South, Range 33 East
Latitude 33.6187 North, Longitude 103.55992 West
NMOCD Reference No. Pending

Prepared By:

Etech Environmental & Safety Solutions, Inc.
3100 Plains Highway
Lovington, New Mexico 88260



Matthew Grieco



Joel W. Lowry



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- Appendix B - Field Data and Soil Profile Logs
- Appendix C - Laboratory Analytical Reports
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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Endeavor Energy Resources, LP, has prepared this Remediation Summary and Soil Closure Request for the Release Site known as the Conoco #1. Details of the release are summarized below:

Location of Release Source

Latitude: 33.6187 Longitude: -103.55992

Provided GPS are in WGS84 format.

Site Name:	Conoco #1	Site Type:	Tank Battery
Date Release Discovered:	4/29/2020	API # (if applicable):	30-005-20805

Unit Letter	Section	Township	Range	County
L	15	8S	33E	Chaves

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Seed Family Ranch, LLC)

Nature and Volume of Release

☒ Crude Oil	Volume Released (bbls)	7.2	Volume Recovered (bbls)	0
☒ Produced Water	Volume Released (bbls)	232.2	Volume Recovered (bbls)	0
	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:

The release was attributed to the failure of a flange on a 2-Inch pipeline.

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.

2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	~130 Ft.	
Did the release impact groundwater or surface water?	☐ Yes	☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes	☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes	☒ No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	☐ Yes	☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes	☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes	☒ No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes	☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes	☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes	☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes	☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes	☒ No
Did the release impact areas not on an exploration, development, production or storage site?	☒ Yes	☐ No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	Constituent	Method	Limit
~130 Ft.	Chloride	EPA 300.0 or SM4500 Cl B	20000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 REMEDIATION ACTIVITIES SUMMARY

On April 30, 2020 and May 1, 2020, Etech conducted an initial release assessment at the Site. During the initial release assessment, a series of hand-augered soil bores and/or test trenches were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores and/or test trenches were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID) and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, thirty (30) delineation soil samples (SP1 @ Surf., SP 1@ 4', SP2 @ Surf., SP2 @ 4', SP3 @ Surf., SP3 @ 4', SP4 @ Surf., SP4 @ 4', SP5 @ Surf., SP5 @ 4', WH1 @ Surf., WH1 @ 1', NH1 @ Surf., NH 1@ 1', NH2 @ Surf., NH2 @ 1', NH3 @ Surf., NH3 @ 1', NH4 @ Surf., NH4 @ 1, EH1 @ Surf., EH1 @ 1', SH4 @ Surf., SH4 @ 1', SH3 @ Surf., SH3 @ 1', SH2 @ Surf., SH2 @ 1, SH1 @ Surf. and SH1 @ 1') were submitted to the laboratory for analysis of BTEX, TPH and Chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard beyond 4 Ft. bgs and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was adequately defined.

Based on the results from the initial site assessment, Etech decided to proceed with the remediation at-risk.

On June 10, 2020, remediation activities commenced at the Site. In accordance with the NMOCD, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and stockpiled on-site, pending final disposition at an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

On June 10, 2020, Etech collected 23 excavation confirmation soil samples (SW1 – 5, EW1 – 3, NW1 – 2, NW3 @ 4', and FL1 @ 4' – FL12 @ 4'). The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On June 16, 2020, Etech collected 7 excavation confirmation soil samples (NW4A, SW6B, and FL 13A @ 4' – FL 17A @ 4'). The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On June 17, 2020, Etech collected 10 excavation confirmation soil samples (NW5 – NW7, SW7A, and FL 18 @ 4' – FL 23 @ 4'). The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On June 18, 2020, Etech collected 11 excavation confirmation soil samples (NW8A, SW8 – 9, WWA, and FL 24 @ 4' – FL 30 @ 4'). The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

A "Site & Sample Location Map (Delineation)" is provided as Figure 3A. A "Site & Sample Location Map (Confirmation)" is provided as Figure 3B. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C. Field data and soil profile logs, if applicable, are provided as Appendix B.

The final dimensions of the excavated area were 200 Ft. in length, 10 to 80 Ft in width and 4 Ft. in depth. During the course of remediation activities approximately 1,360 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

5.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas 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.

6.0 SOIL CLOSURE REQUEST

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Endeavor Energy Resources, LP provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the Conoco #1 Site.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Remediation Summary and 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 Endeavor Energy Resources, LP. Use of the information contained in this report is prohibited without the consent of Etech and/or Endeavor Energy Resources, LP.

8.0 DISTRIBUTION

Endeavor Energy Resources, LP

110 N. Marienfeld St

Suite 200

Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

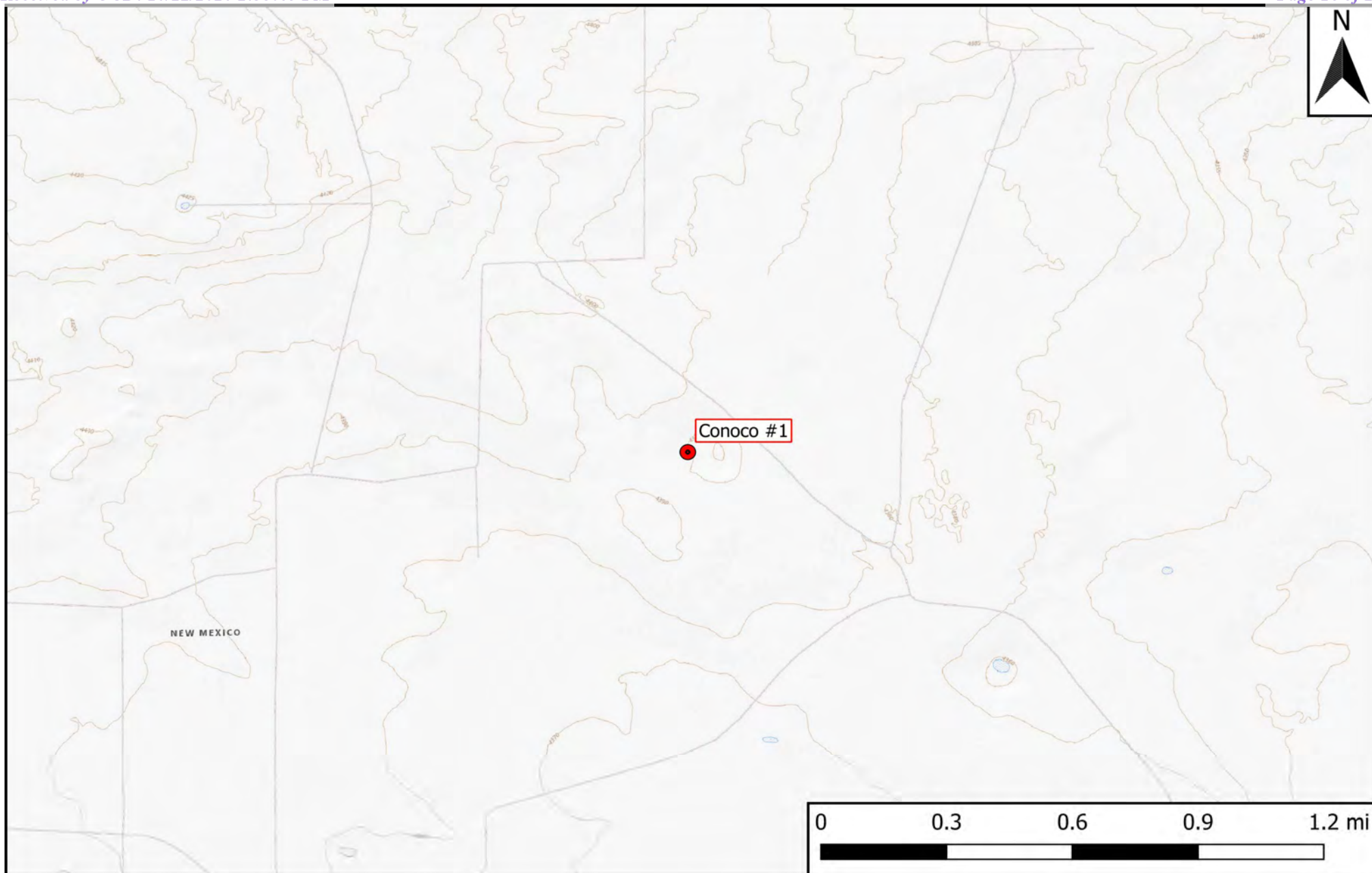
1220 South St. Francis Drive

Santa Fe, NM 87505

(Electronic Submission)

Figure 1

Topographic Map



Legend

 Site Location

Figure 1
Topographic Map
Endeavor Energy Resources, LP
Conoco #1
GPS: 33.6187, -103.55992
Chaves County



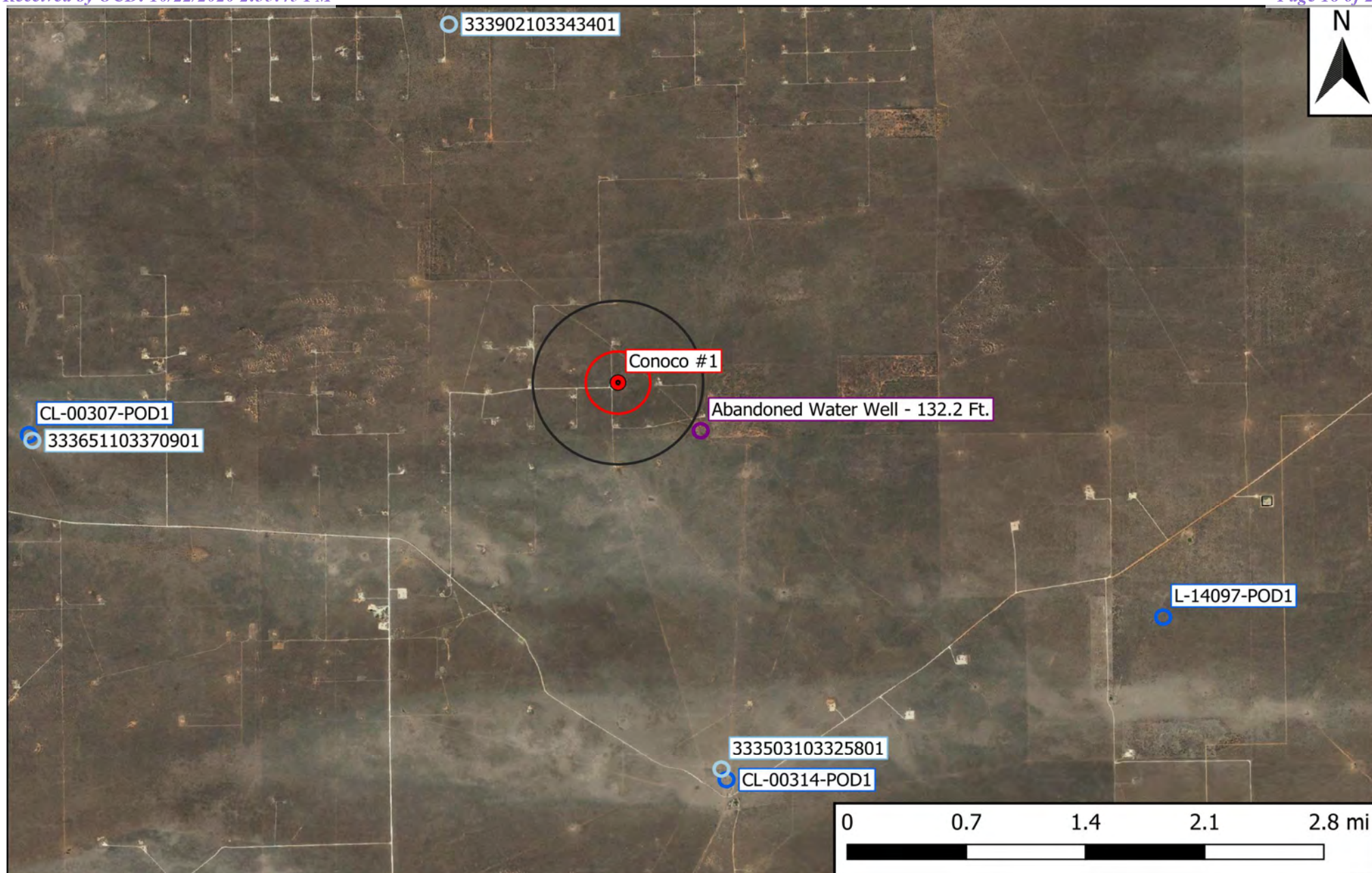
Drafted: mag

Checked: jwl

Date: 5/4/20

Figure 2

Aerial Proximity Map



Legend

- Site Location
- Well - NMOSE
- Well - USGS
- High Karst
- Potash Mine Workings
- Abandoned Water Well
- 0.5 Mi Radius
- 1000 Ft Radius
- 1% Annual Flood Chance
- Lake/Freshwater Pond
- Emergent/Forested Wetlands
- Riverine

Figure 2
 Aerial Map
 Endeavor Energy Resources, LP
 Conoco #1
 GPS: 33.6187, -103.55992
 Chaves County

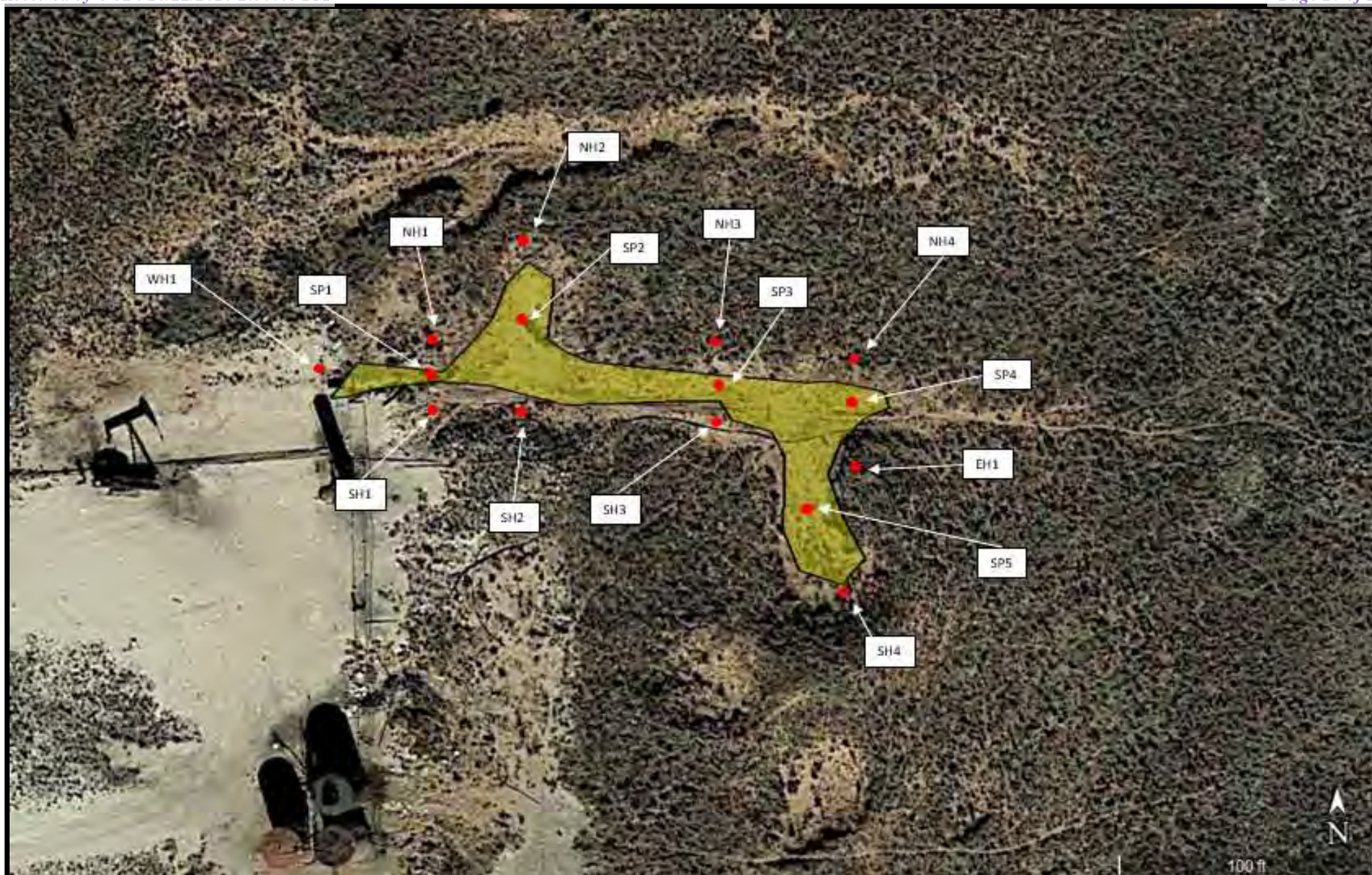


Drafted: mag

Checked: jwl

Date: 5/14/20

Figure 3A
Site and Sample Location Map (Delineation)



Legend:

- Sample Point
- Affected Area

Figure 3A

Site and Sample Location Map (Delineation)
 Endeavor Energy Resources, LP
 Conoco #1
 GPS: 33.6187, -103.55992
 Chaves County

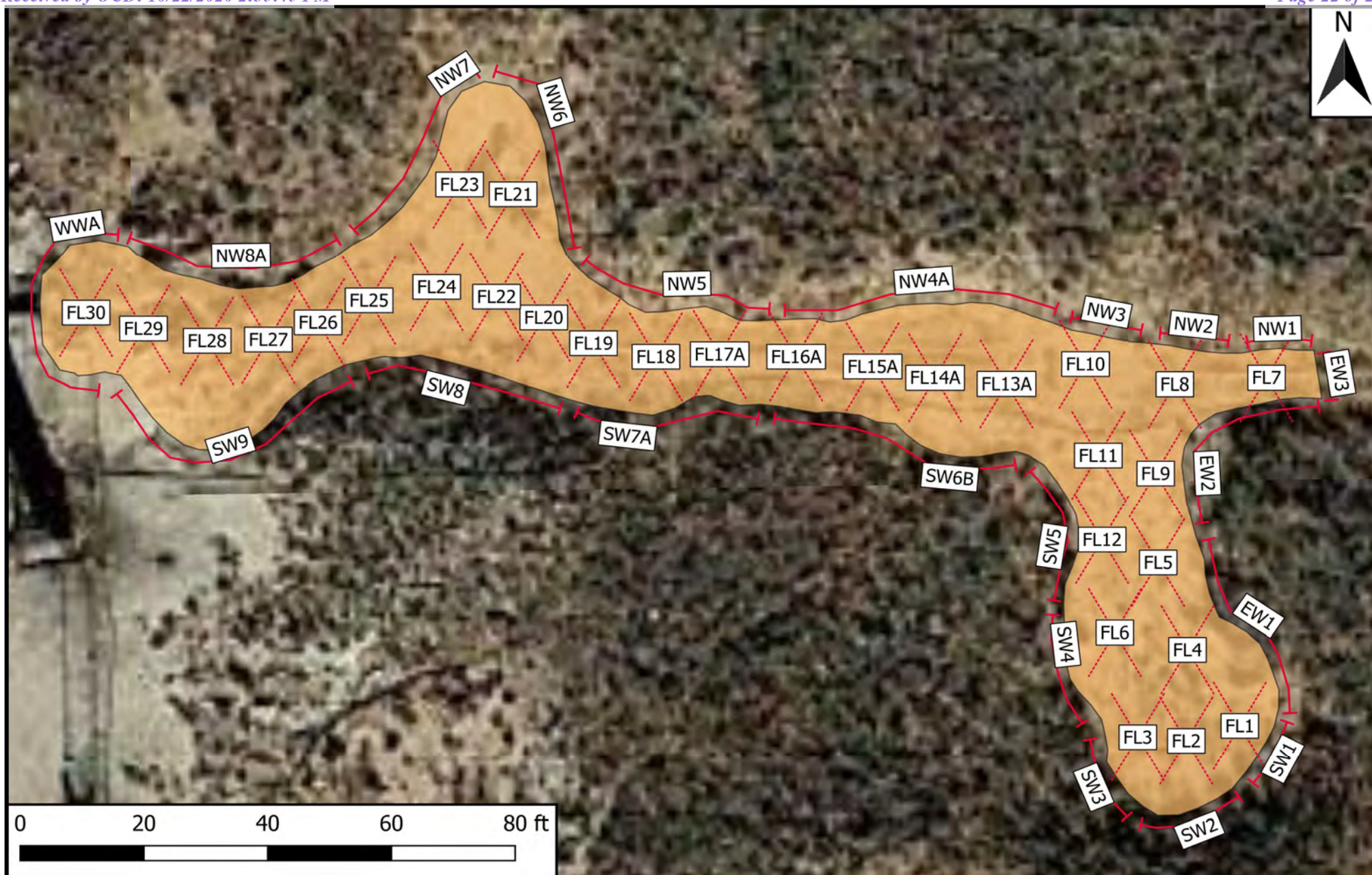


Drafted: jwl

Checked: mag

Date: 7/20/20

Figure 3B
Site and Sample Location Map (Confirmation)



Legend

- |— Composite Wall Sample
- X Composite Floor Sample

Figure 3B

Site and Sample Location Map (Confirmation)
 Endeavor Energy Resources, LP
 Conoco #1
 GPS: 33.6187, -103.55992
 Chaves County



Drafted: mag

Checked: jwl

Date: 7/20/20

Table 1
Concentrations of BTEX, TPH, and/or Chloride in Soil

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Endeavor Energy Resources, LP
Conoco #1
NMOCD Ref. #: Pending

NMOCD Closure Criteria				10	50	-	-	1000	-	2500	20000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth	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)
EH1-1'	5/1/2020	1'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97
EH1-Surf	5/1/2020	0'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	7.01
NH1 @ 1'	4/30/2020	1'	In-Situ	<0.00199	0.00601	<50.0	<50.0	<50.0	<50.0	<50.0	9.89
NH1 @ Surf.	4/30/2020	0'	In-Situ	<0.00199	0.04	<50.0	<50.0	<50.0	<50.0	<50.0	13.5
NH2 @ Surf	4/30/2020	0'	In-Situ	<0.00199	0.00601	<49.9	<49.9	<49.9	<49.9	<49.9	11.8
NH2-1	4/30/2020	1'	In-Situ	<0.00199	0.00606	<49.9	<49.9	<49.9	<49.9	<49.9	26.7
NH3-1	4/30/2020	1'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	6.22
NH3-Suf	4/30/2020	0'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	14.2
NH4-1'	5/1/2020	1'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	<5.01
NH4-Surf	5/1/2020	0'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	10.4
SH1 @ Surf	4/30/2020	0'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	76.5
SH1-1	4/30/2020	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	58.3
SH2-1	4/30/2020	1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	12
SH2-Surf	4/30/2020	0'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	25.8
SH3-1	4/30/2020	1'	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	9.99
SH3-Surf	4/30/2020	0'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	6.61
SH4-1'	5/1/2020	1'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	<4.98
SH4-Surf	5/1/2020	0'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	<5.05
SP1 @ 4'	4/30/2020	4'	In-Situ	0.041	0.18	<50.0	229	229	<50.0	229	5620
SP1 @ Surf	4/30/2020	0'	Excavated	9.98	375	4130	24000	28130	2460	30600	3820
SP2 @ Surf	4/30/2020	0'	Excavated	<0.00198	0.203	<50.0	115	115	94.1	209	6490
SP2-4R	4/30/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2640
SP3-4R	4/30/2020	4'	In-Situ	<0.00200	<0.00200	<49.9	157	157	<49.9	157	2790
SP3-Surf	4/30/2020	0'	Excavated	<0.00198	<0.00198	<50.0	2660	2660	680	3340	541
SP4-4R	5/1/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2080
SP4-Surf	5/1/2020	0'	Excavated	<0.00199	<0.00199	<50.0	102	102	<50.0	102	332
SP5-4R	5/1/2020	4'	In-Situ	<0.00200	<0.00200	<49.9	136	136	82.5	219	13300
SP5-Surf	5/1/2020	0'	Excavated	0.35	121	419	6360	6779	711	7490	9420
WH@1'	4/30/2020	1'	In-Situ	<0.00200	0.0049	<49.8	<49.8	<49.8	<49.8	<49.8	18.9
WH1-Surf	4/30/2020	0'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	55.7
SW1	6/10/2020	0-4'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	<4.96
SW2	6/10/2020	0-4'	In-Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	8.21
SW3	6/10/2020	0-4'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	<5.00
SW4	6/10/2020	0-4'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	<4.99
SW5	6/10/2020	0-4'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	16.3
EW1	6/10/2020	0-4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	7.27
EW2	6/10/2020	0-4'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	14.7
EW3	6/10/2020	0-4'	In-Situ	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	15.6
NW1	6/10/2020	0-4'	In-Situ	<0.00200	<0.000998	<50.0	<50.0	<50.0	<50.0	<50.0	<5.02
NW2	6/10/2020	0-4'	In-Situ	<0.00200	<0.00100	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97
NW3 @ 4'	6/10/2020	4'	In-Situ	<0.00201	<0.00101	<49.9	<49.9	<49.9	<49.9	<49.9	<4.95

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Endeavor Energy Resources, LP
Conoco #1
NMOCD Ref. #: Pending

NMOCD Closure Criteria				10	50	-	-	1000	-	2500	20000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth	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)
FL1 @ 4'	6/10/2020	4'	In-Situ	<0.00201	<0.00101	<49.9	<49.9	<49.9	<49.9	<49.9	3680
FL2 @ 4'	6/10/2020	4'	In-Situ	<0.00199	<0.000996	<50.0	<50.0	<50.0	<50.0	<50.0	8320
FL3 @ 4'	6/10/2020	4'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	11000
FL4 @ 4'	6/10/2020	4'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	6550
FL5 @ 4'	6/10/2020	4'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	681
FL6 @ 4'	6/10/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	145	145	<50.0	145	7960
FL7 @ 4'	6/10/2020	4'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	30.8
FL8 @ 4'	6/10/2020	4'	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	679
FL9 @ 4'	6/10/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	4170
FL10 @ 4'	6/10/2020	4'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	4270
FL11 @ 4'	6/10/2020	4'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	2260
FL12 @ 4'	6/10/2020	4'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	6050
NW4A	6/16/2020	0-4'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	527
SW6B	6/16/2020	0-4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	294
FL 13A @4'	6/16/2020	4'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	2370
FL 14A @4'	6/16/2020	4'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	3080
FL 15A @4'	6/16/2020	4'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	5030
FL 16A @4'	6/16/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	5420
FL 17A @4'	6/16/2020	4'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	4540
NW5	6/17/2020	0-4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	8.07
NW6	6/17/2020	0-4'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	9.11
NW7	6/17/2020	0-4'	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	16.3
SW7A	6/17/2020	0-4'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	25.8
FL 18 @ 4'	6/17/2020	4'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	3380
FL 19 @ 4'	6/17/2020	4'	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	4230
FL 20 @ 4'	6/17/2020	4'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	1250
FL 21 @ 4'	6/17/2020	4'	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	652
FL 22 @ 4'	6/17/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2850
FL 23 @ 4'	6/17/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	3980
NW8A	6/18/2020	0-4'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	18.1
SW8	6/18/2020	0-4'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	20.1
SW9	6/18/2020	0-4'	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	151
WWA	6/18/2020	0-4'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	199
FL 24 @ 4'	6/18/2020	4'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	143
FL 25 @ 4'	6/18/2020	4'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	742
FL 26 @ 4'	6/18/2020	4'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	713
FL 27 @ 4'	6/18/2020	4'	In-Situ	<0.00200	0.0132	<50.0	112	112	<50.0	112	1580
FL 28 @ 4'	6/18/2020	4'	In-Situ	<0.00199	<0.00199	<49.9	161	161	<49.9	161	1140
FL 29 @ 4'	6/18/2020	4'	In-Situ	<0.00198	<0.00198	<49.8	59.2	59.2	<49.8	59.2	1380
FL 30 @ 4'	6/18/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	92.6	92.6	<50.0	92.6	538

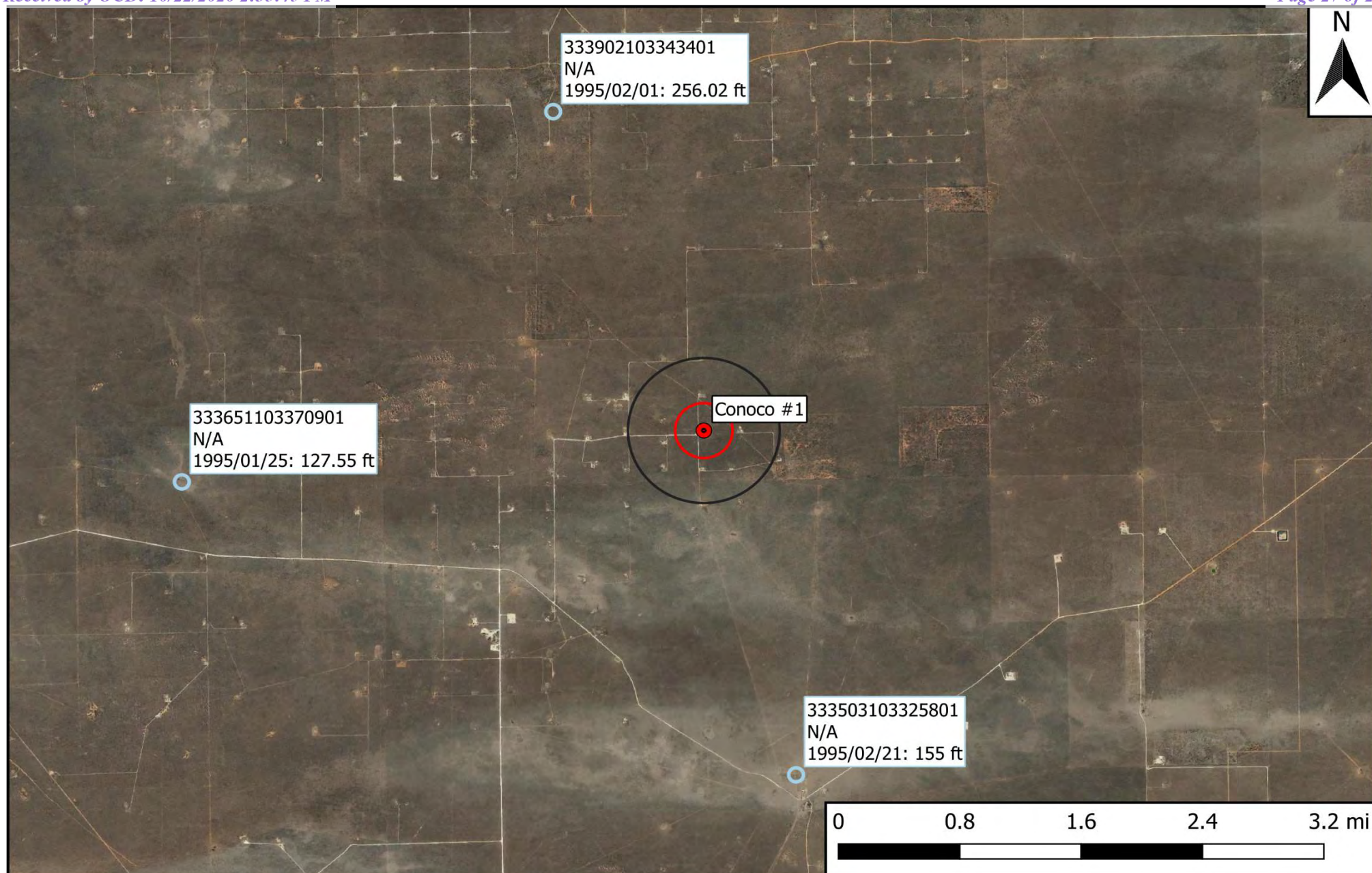
NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Appendix A

Depth to Groundwater Information



Legend

- Site Location
- Well - USGS
- 0.5 Mi Radius
- 1000 Ft Radius

Figure 4

USGS Well Proximity Map
 Endeavor Energy Resources, LP
 Conoco #1
 GPS: 33.6187, -103.55992
 Chaves County



Drafted: mag

Checked: jwl

Date: 5/14/20



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CL 00314 POD1		CL	CH	1	2	2	34	08S	33E	634611	3716897	4043	220	157	63
Average Depth to Water:														157 feet	
Minimum Depth:														157 feet	
Maximum Depth:														157 feet	

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 633585

Northing (Y): 3720809

Radius: 4830

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.

5/4/20 9:14 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CL 00314	POD1	1	2	2	34	08S	33E	634611	3716897

x

Driller License: 1626 **Driller Company:** TAYLOR, ROY ALLEN

Driller Name: TAYLOR, ROY A.

Drill Start Date: 04/18/2016

Drill Finish Date: 04/20/2016

Plug Date:

Log File Date: 04/29/2016

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 5 GPM

Casing Size: 5.00

Depth Well: 220 feet

Depth Water: 157 feet

x

Water Bearing Stratifications:

Top	Bottom	Description
116	135	Sandstone/Gravel/Conglomerate
135	185	Sandstone/Gravel/Conglomerate
182	205	Sandstone/Gravel/Conglomerate

x

Casing Perforations:

Top	Bottom
160	220

x

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5/4/20 9:14 AM

POINT OF DIVERSION SUMMARY



National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

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- Notice** - The USGS Water Resources Mission Area's priority is to maintain the safety and well-being of our communities, including providing critical situational awareness in times of flooding in all 50 U.S. states and additional territories. Our hydrologic monitoring stations continue to send data in near real-time to NWISWeb, and we are continuing critical water monitoring activities to protect life and property on a case-by-case basis. The health and safety of the public and our employees are our highest priorities, and we continue to follow guidance from the White House, the CDC, and state and local authorities.
- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#)

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 333902103343401

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 333902103343401 08S.33E.04.114343

Chaves County, New Mexico
Latitude 33°39'02", Longitude 103°34'34" NAD27
Land-surface elevation 4,423 feet above NGVD29
The depth of the well is 453 feet below land surface.

Output formats

Table of data											
Tab-separated data											
Graph of data											
Reselect period											
Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1995-02-01			D	256.02		2		S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.





National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

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- [Full News](#)

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 333651103370901

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 333651103370901 08s.32e.13.43421

Chaves County, New Mexico
Latitude 33°36'51", Longitude 103°37'09" NAD27
Land-surface elevation 4,418 feet above NGVD29
The depth of the hole is 180.00 feet below land surface.

Output formats

Table of data											
Tab-separated data											
Graph of data											
Reselect period											
Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1995-01-25		D	127.55			2		S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.





National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater ▼

Geographic Area:

United States ▼

GO

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- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 333503103325801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 333503103325801 08S.33E.34.212211

Chaves County, New Mexico

Latitude 33°35'03", Longitude 103°32'58" NAD27

Land-surface elevation 4,355 feet above NGVD29

The depth of the well is 180 feet below land surface.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1995-02-21		D	155			0		S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	0	Water level accuracy to nearest foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)[Feedback on this web site](#)[Automated retrievals](#)[Help](#)[Data Tips](#)[Explanation of terms](#)[Subscribe for system changes](#)[News](#)



Appendix B

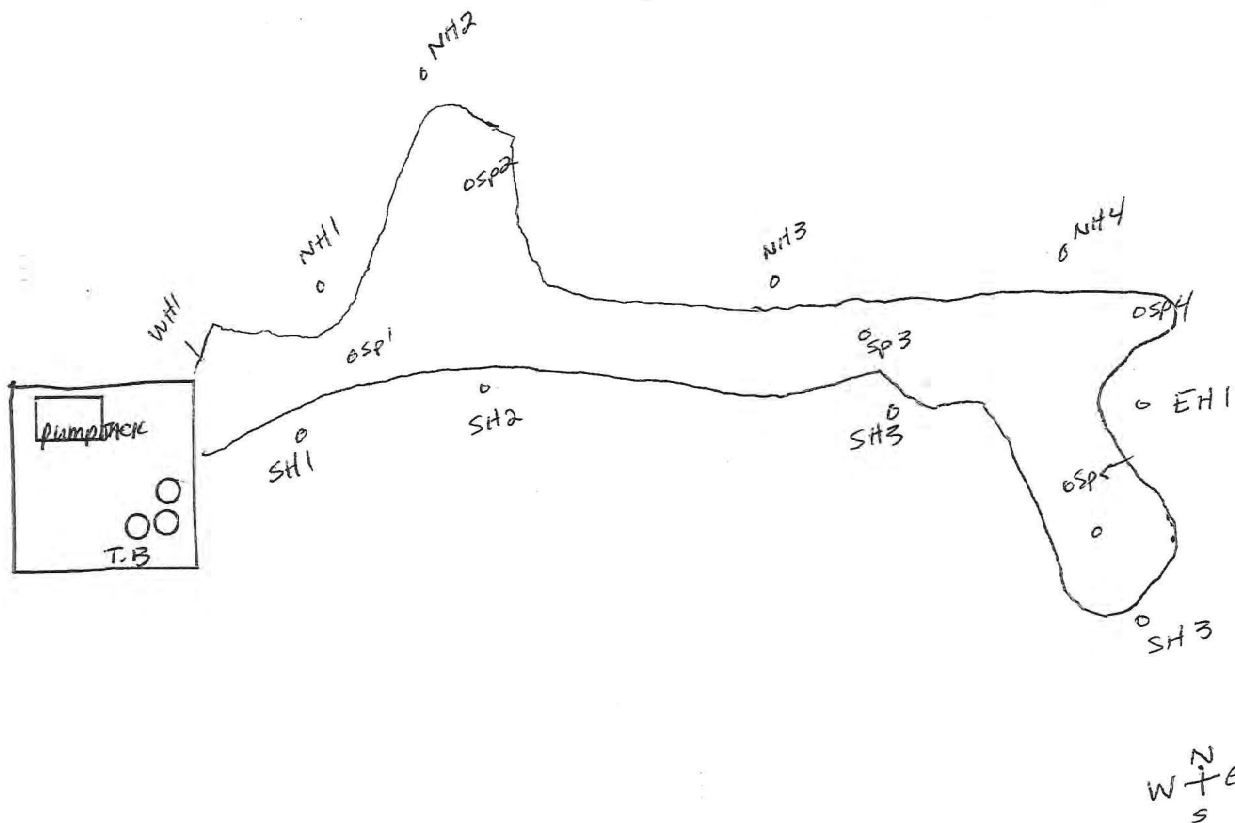
Field Data and Soil Profile Logs



Initial Release Assessment Form

Project: Conoco #1 Date: 4-30-20
 Project Number: Pending Clean Up Level: 0
 Latitude: 33.618706 Longitude: -103.559927

Site Diagram



Notes: Begin delineation - found Rock @ 4' - R. maxed out auger

~Length:

~Width:

~Area:

~Depth:

Yes

No

3-4 Representative Pictures of the Affected Area including sample locations?

☐
☐

Necessary Samples Field Screened and on Ice?

☐
☐

Sample and Field Screen Data Entered on Sample Log?

☐
☐

Was horizontal and vertical delineation achieved?

☐
☐

Sample Log

Date: 4/30/20 - 5/1/2020

Project: Conoco #1

Project Number: Pending Latitude: 33.618706 Longitude: -103.559927

Sample ID	PID/Odor	Chloride Conc.	GPS
Sp1 - Surf 4/30/20	TPH/strong	2384 Lab 4/30/20	Red Sand
- 1'	TPH	62120	Sand
- 2'	TPH	127916	Sand
- 3'	TPH	127916	Sand
- 4' - R	TPH	5776 LAB 4/30/20	Rock
Sp2 - Surf 4/30/20	TPH	12220 Lab 4/30/20	Sand
- 1'		4904	Sand
- 2'	TPH	87716	Sand
- 3'	TPH	127916	Sand
- 4' - R	TPH	4904 Lab 4/30/20	Rock
Sp3 - Surf 4/30/20	TPH	2324 Lab 4/30/20	Sand
1'	TPH	2,324	Sand
2'	TPH	2,324	Sand
3'	TPH	2,324	Sand
4' - R	TPH	2,324 Lab 4/30/20	Rock
Sp4 - Surf 5/1/20		554 Lab 5/1/20	Sand
- 1'		2008	Sand
- 2'		2156	Sand
- 3'		2504	Sand
- 4' - R		2504 Lab 5/1/20	Rock
Sp5 - Surf 5/1/20	TPH	3,272 Lab 5/1/20	Sand
1'	TPH	8,048	Sand
2'	TPH	15,528	Sand
3'		9584	Sand
4' - R		8048 Lab 5/1/20	Rock
WH1 - Surf 4/30/20		<168 Lab 4/30/20	Sand
1'		<124 Lab 4/30/20	Sand
WH1 - Surf 4/30/20		<124 Lab 4/30/20	Sand
1' 4/30/20		<124 Lab 4/30/20	Sand

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: Conoco #1

Project Number:	Pending	Latitude:	33.618706	Longitude:	-103.559927
-----------------	---------	-----------	-----------	------------	-------------

[illegible]

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



Soil Profile

Project: Conoco #1 Date: 4/30/2020
Project Number: Pending Latitude: 33.618706 Longitude: -103.559927

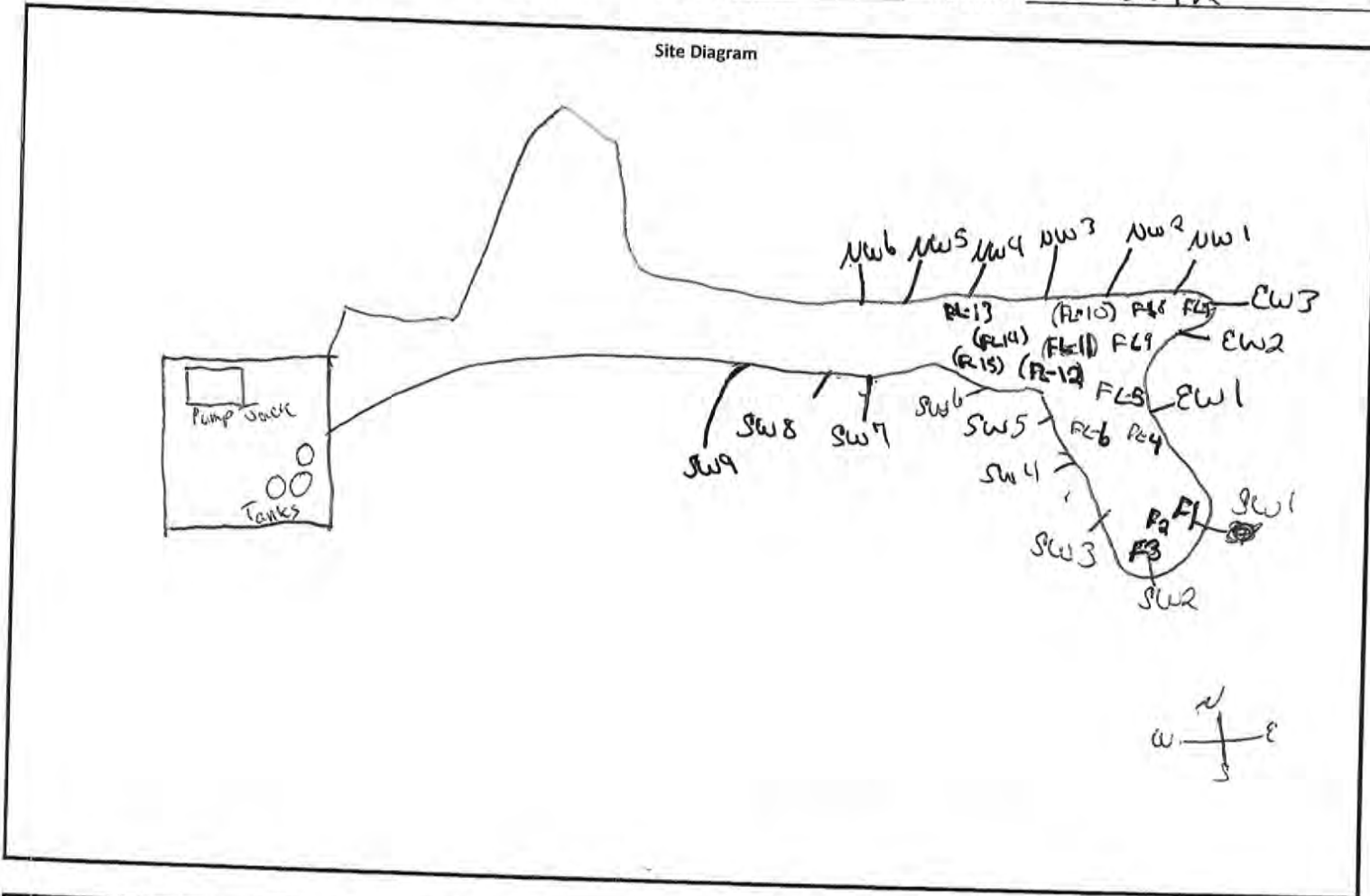
Depth (ft. bgs)	Description
1	Red Sand
2	" "
3	" "
4	Rock / Caliche
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
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Initial Release Assessment Form

Project: Conoco #1 Date: 6.9.20
Project Number: 12384 Clean Up Level: _____ Latitude: 33.6187 Longitude: -103.55992

Site Diagram



Notes:

Handwritten notes area with horizontal lines.

~Length:	~Width:	~Area:	~Depth:	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?				☐	☐
Necessary Samples Field Screened and on Ice?				☐	☐
Sample and Field Screen Data Entered on Sample Log?				☐	☐
Was horizontal and vertical delineation achieved?				☐	☐



Sample Log

Date:

0/18/20

Project: Conoco #1

Project Number: 12384

Latitude: 33.6187

Longitude: -103.55992

[illegible]

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

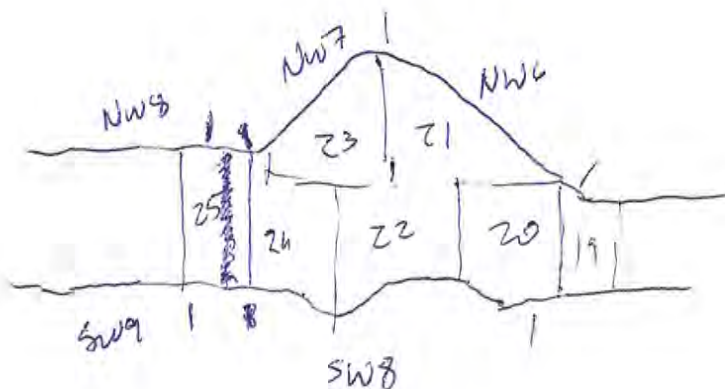
GPS Sample Points, Center of Comp Areas



Initial Release Assessment Form

Project: Conoco #1 Clean Up Level: 10,000 mg/kg Cl-, 2,500 mg/kg TPH
 Project Number: 12384 Latitude: 33.6187 Longitude: -103.55992

Site Diagram



Notes:

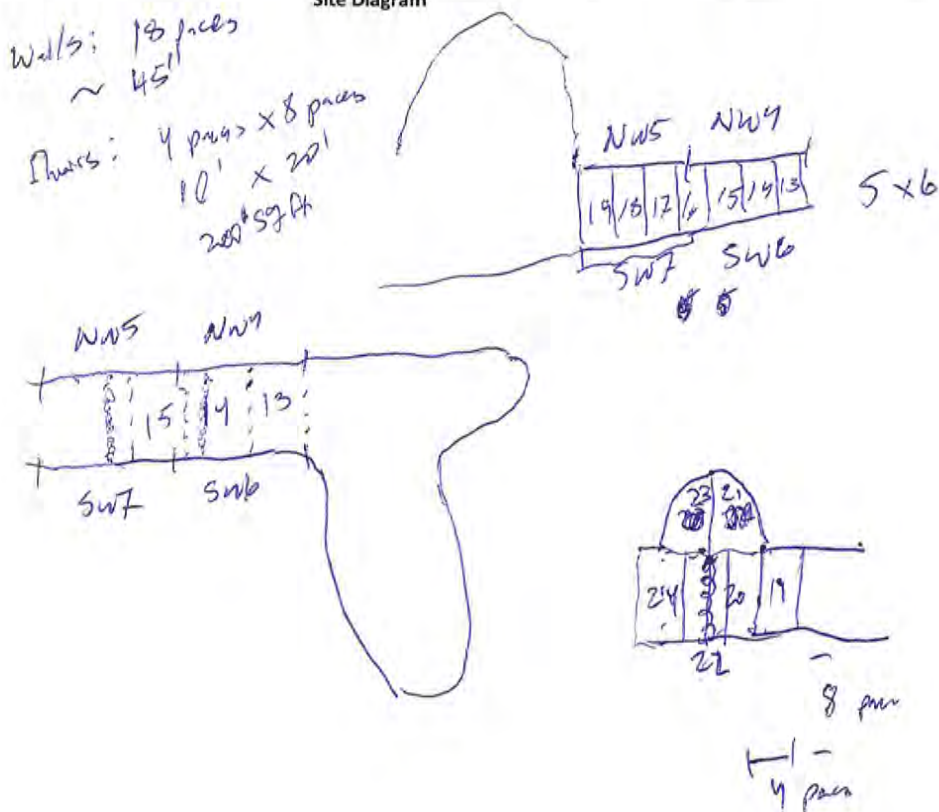
~Length:	~Width:	~Area:	~Depth:	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?				☐	☐
Necessary Samples Field Screened and on Ice?				☐	☐
Sample and Field Screen Data Entered on Sample Log?				☐	☐
Was horizontal and vertical delineation achieved?				☐	☐



Initial Release Assessment Form

Project: Conoco #1 Date:
 Clean Up Level: 10,000 mg/kg Cl-, 2,500 mg/kg TPH
 Project Number: 12384 Latitude: 33.6187 Longitude: -103.55992

Site Diagram



Notes:

~Length:	~Width:	~Area:	~Depth:	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?				☐	☐
Necessary Samples Field Screened and on Ice?				☐	☐
Sample and Field Screen Data Entered on Sample Log?				☐	☐
Was horizontal and vertical delineation achieved?				☐	☐



Remediation Log

Project: Conoco #1
Project Number: Pending Latitude: 33.618706 Longitude: -103.559927

Confirmation of Active One Call? One Call No. 203N020161
Confirmation of On-Site JSA?

Yes ☒ No ☐
Yes ☒ No ☐

Date:	Notes	Yds	
		Out	In
	****Begin Remediation Activities****		
6/9/20	Excavator excavated 300 yards Contaminated Soil		
6/10/20	Excavator excavated 200 yards		
6/10/20	Excavator excavated 200 yards		
6/15/20	Excavated Soil - Haul out - Test	240	
6/16/20	Excavated Soil - Haul out - Test	320	
6/17/20	Excavated Soil - Haul out - Test	240	
6/18/20	Excavated Soil Haul out - Test	320	
6/19/20	Excavated Haul out	140	
6/22/20	Excavated & Haul out		
6/25/20	Haul in 12 loads in		144
6/26/20	Haul in 10 loads in		120
6/29/20	Haul in 18 loads 24 yards Caliche 136 Sand		180
6/30/20	Haul in 14 loads 168 yards Top Soil		168
7/1/20	Haul in 10 loads Top Soil		120
7/8/20	Haul in 20 loads Top Soil		240
7-9-20	Hauled in 18 loads		216
7-13-20	Hauled in 8 loads		96
	****Begin Backfill Activities****		
	****Complete Remediation Activities****		

Total Yds
Out 1360 In 1284

Pictures of Open Excavation Prior to Backfill
Relevant Information in Project Tracker?

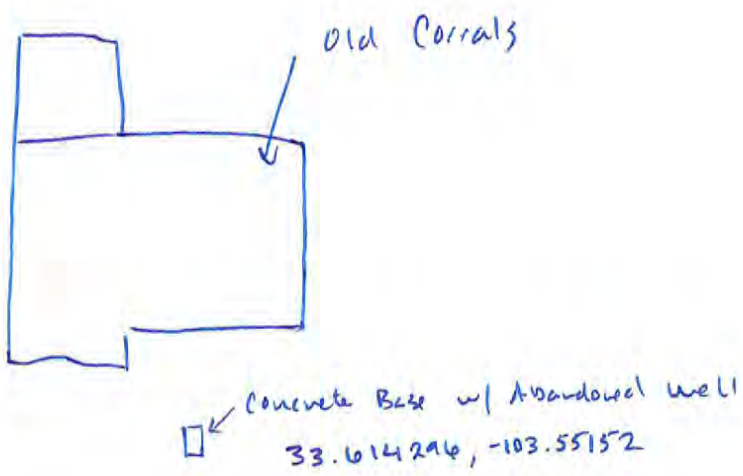
Yes ☒ No ☐
Yes ☒ No ☐



Initial Release Assessment Form

Project: _____ Conoco #1 _____ Date: 5/15/2020
Project Number: 12384 Latitude: 33.6187 Clean Up Level: 10,000 mg/kg Cl-, 2,500 mg/kg TPH
Longitude: -103.5592

Site Diagram



Notes: Locate Historic Abandoned Water Well as per Landowner
- gauge water well 132.2 ft
- Lower Camera into well to determine completion, open hole past 10-15 ft

~Length: NA ~Width: _____ ~Area: _____ ~Depth: _____

	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?	☐	☐
Necessary Samples Field Screened and on Ice?	☐	☐
Sample and Field Screen Data Entered on Sample Log?	☐	☐
Was horizontal and vertical delineation achieved?	☐	☐

Appendix C

Laboratory Analytical Reports



Certificate of Analysis Summary 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conco #1

Project Id:

Contact: PM

Project Location:

Date Received in Lab: Fri 05.01.2020 11:00

Report Date: 05.12.2020 15:35

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	660323-001	660323-002	660323-003	660323-004	660323-005	660323-006
	<i>Field Id:</i>	WH1-Surf	SH1-1	SP3-Surf	SP3-4R	NH3-Suf	NH3-1
	<i>Depth:</i>		1- ft		4- ft		1- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	04.30.2020 00:00	04.30.2020 00:00	04.30.2020 00:00	04.30.2020 00:00	04.30.2020 00:00	04.30.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	05.05.2020 17:15	05.05.2020 17:15	05.05.2020 17:15	05.05.2020 17:15	05.05.2020 17:15	05.05.2020 17:15
	<i>Analyzed:</i>	05.06.2020 04:04	05.06.2020 04:25	05.06.2020 04:45	05.06.2020 05:05	05.06.2020 05:25	05.06.2020 06:44
	<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	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
m,p-Xylenes		<0.00400 0.00400	<0.00400 0.00400	<0.00397 0.00397	<0.00399 0.00399	<0.00398 0.00398	<0.00397 0.00397
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Chloride by EPA 300	<i>Extracted:</i>	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00
	<i>Analyzed:</i>	05.02.2020 14:08	05.02.2020 14:13	05.02.2020 14:29	05.02.2020 14:34	05.02.2020 14:39	05.02.2020 14:44
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		55.7 5.00	58.3 5.02	541 4.98	2790 25.1	14.2 4.99	6.22 4.99
TPH By SW8015 Mod	<i>Extracted:</i>	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00
	<i>Analyzed:</i>	05.03.2020 20:21	05.03.2020 21:18	05.03.2020 21:37	05.03.2020 21:56	05.03.2020 22:15	05.03.2020 22:33
	<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	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	2660 50.0	157 49.9	<49.9 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	680 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0
Total TPH		<50.0 50.0	<50.0 50.0	3340 50.0	157 49.9	<49.9 49.9	<50.0 50.0

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conco #1

Project Id:

Contact: PM

Project Location:

Date Received in Lab: Fri 05.01.2020 11:00

Report Date: 05.12.2020 15:35

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	660323-007	660323-008	660323-009	660323-010	660323-011	660323-012
	<i>Field Id:</i>	SH2-1	SH2-Surf	SH3-Surf	SH3-1	SP2-4R	SP1 @ Surf
	<i>Depth:</i>	1- ft			1- ft	4- ft	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	04.30.2020 00:00	04.30.2020 00:00	04.30.2020 00:00	04.30.2020 00:00	04.30.2020 00:00	04.30.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	05.05.2020 17:15	05.05.2020 17:15	05.05.2020 17:15	05.05.2020 17:15	05.05.2020 17:15	05.05.2020 17:15
	<i>Analyzed:</i>	05.06.2020 07:04	05.06.2020 07:24	05.06.2020 07:44	05.06.2020 08:04	05.06.2020 09:23	05.06.2020 09:43
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	9.98 D 0.998
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	112 D 0.998
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	147 D 0.998
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00400 0.00400	<0.00397 0.00397	<0.00399 0.00399	72.8 D 2.00
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	33.7 D 0.998
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	107 0.998
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	375 0.998
Chloride by EPA 300	<i>Extracted:</i>	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.05.2020 12:00
	<i>Analyzed:</i>	05.02.2020 14:50	05.02.2020 14:55	05.02.2020 15:11	05.02.2020 15:16	05.02.2020 15:32	05.05.2020 16:09
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		12.0 4.97	25.8 5.02	6.61 4.98	9.99 4.98	2640 25.1	3820 25.1
TPH By SW8015 Mod	<i>Extracted:</i>	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00
	<i>Analyzed:</i>	05.04.2020 06:42	05.04.2020 07:00	05.04.2020 07:19	05.04.2020 07:38	05.04.2020 08:16	05.04.2020 08:35
	<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	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	4130 250
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	24000 250
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	2460 250
Total TPH		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	30600 250

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conco #1

Project Id:

Contact: PM

Project Location:

Date Received in Lab: Fri 05.01.2020 11:00

Report Date: 05.12.2020 15:35

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	660323-013	660323-014	660323-015	660323-016	660323-017	660323-018
	<i>Field Id:</i>	SP1 @ 4'	SP2 @ Surf	NH2-1	WH@1'	NH1 @ 1'	SH1 @ Surf
	<i>Depth:</i>	4-		1- ft	1- ft	1- ft	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	04.30.2020 00:00	04.30.2020 00:00	04.30.2020 00:00	04.30.2020 00:00	04.30.2020 00:00	04.30.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	05.08.2020 12:00	05.05.2020 17:15	05.05.2020 17:15	05.05.2020 17:15	05.05.2020 17:15	05.05.2020 17:15
	<i>Analyzed:</i>	05.08.2020 23:53	05.06.2020 10:24	05.06.2020 10:44	05.06.2020 11:04	05.06.2020 11:24	05.06.2020 11:44
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		0.0410 0.0198	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Toluene		<0.0198 0.0198	0.00562 0.00198	0.00262 0.00199	0.00216 0.00200	0.00237 0.00199	<0.00199 0.00199
Ethylbenzene		0.0552 0.0198	0.105 0.00198	0.00344 0.00199	0.00274 0.00200	0.00364 0.00199	<0.00199 0.00199
m,p-Xylenes		0.0436 0.0397	0.0709 0.00396	<0.00398 0.00398	<0.00401 0.00401	<0.00398 0.00398	<0.00398 0.00398
o-Xylene		0.0400 0.0198	0.0215 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total Xylenes		0.0836 0.0198	0.0924 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total BTEX		0.180 0.0198	0.203 0.00198	0.00606 0.00199	0.00490 0.00200	0.00601 0.00199	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:15
	<i>Analyzed:</i>	05.02.2020 15:42	05.02.2020 15:48	05.02.2020 15:53	05.02.2020 15:58	05.02.2020 16:04	05.02.2020 16:35
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		5620 49.8	6490 49.7	26.7 5.01	18.9 5.03	9.89 4.99	76.5 X 5.01
TPH By SW8015 Mod	<i>Extracted:</i>	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00	05.02.2020 12:00
	<i>Analyzed:</i>	05.04.2020 08:54	05.04.2020 10:09	05.04.2020 09:32	05.04.2020 09:50	05.04.2020 10:46	05.04.2020 11:04
	<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)		229 50.0	115 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	94.1 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Total TPH		229 50.0	209 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conco #1

Project Id:

Date Received in Lab: Fri 05.01.2020 11:00

Contact: PM

Report Date: 05.12.2020 15:35

Project Location:

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	660323-019	660323-020				
	Field Id:	NH2 @ Surf	NH1 @ Surface				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	04.30.2020 00:00	04.30.2020 00:00				
BTEX by EPA 8021B	Extracted:	05.05.2020 17:15	05.05.2020 17:15				
	Analyzed:	05.06.2020 12:04	05.06.2020 12:25				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		<0.00199 0.00199	<0.00199 0.00199				
Toluene		0.00227 0.00199	0.00324 0.00199				
Ethylbenzene		0.00374 0.00199	0.0167 0.00199				
m,p-Xylenes		<0.00398 0.00398	0.0126 0.00398				
o-Xylene		<0.00199 0.00199	0.00750 0.00199				
Total Xylenes		<0.00199 0.00199	0.0201 0.00199				
Total BTEX		0.00601 0.00199	0.0400 0.00199				
Chloride by EPA 300	Extracted:	05.02.2020 12:15	05.02.2020 12:15				
	Analyzed:	05.02.2020 16:51	05.02.2020 16:57				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		11.8 5.03	13.5 5.05				
TPH By SW8015 Mod	Extracted:	05.02.2020 12:00	05.02.2020 12:00				
	Analyzed:	05.04.2020 11:23	05.04.2020 11:41				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0				
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0				
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0				
Total TPH		<49.9 49.9	<50.0 50.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager



Analytical Report 660323

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Conco #1

05.12.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.12.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: XENCO Report No(s): **660323**

Conco #1

Project Address:

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 XENCO Report Number(s) 660323. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 660323 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'. The signature is written in a cursive, flowing style.

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 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
WH1-Surf	S	04.30.2020 00:00		660323-001
SH1-1	S	04.30.2020 00:00	1 ft	660323-002
SP3-Surf	S	04.30.2020 00:00		660323-003
SP3-4R	S	04.30.2020 00:00	4 ft	660323-004
NH3-Suf	S	04.30.2020 00:00		660323-005
NH3-1	S	04.30.2020 00:00	1 ft	660323-006
SH2-1	S	04.30.2020 00:00	1 ft	660323-007
SH2-Surf	S	04.30.2020 00:00		660323-008
SH3-Surf	S	04.30.2020 00:00		660323-009
SH3-1	S	04.30.2020 00:00	1 ft	660323-010
SP2-4R	S	04.30.2020 00:00	4 ft	660323-011
SP1 @ Surf	S	04.30.2020 00:00		660323-012
SP1 @ 4'	S	04.30.2020 00:00	4	660323-013
SP2 @ Surf	S	04.30.2020 00:00		660323-014
NH2-1	S	04.30.2020 00:00	1 ft	660323-015
WH@1'	S	04.30.2020 00:00	1 ft	660323-016
NH1 @ 1'	S	04.30.2020 00:00	1 ft	660323-017
SH1 @ Surf	S	04.30.2020 00:00		660323-018
NH2 @ Surf	S	04.30.2020 00:00		660323-019
NH1 @ Surface	S	04.30.2020 00:00		660323-020

**CASE NARRATIVE****Client Name: Etech Environmental & Safety Solution, Inc****Project Name: Conco #1**Project ID:
Work Order Number(s): 660323Report Date: 05.12.2020
Date Received: 05.01.2020**Sample receipt non conformances and comments:****Sample receipt non conformances and comments per sample:**

None

Analytical non conformances and comments:

Batch: LBA-3124966 Chloride by EPA 300

Lab Sample ID 660367-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 660323-018, -019, -020.

Batch: LBA-3125202 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 660323-019,660323-015,660323-012,660323-005,660323-008.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7702821-1-BKS,7702821-1-BSD,660323-001 S,660323-001 SD,660323-001,660323-002,660323-003,660323-004,660323-005,660323-006,660323-008,660323-009,660323-010,660323-011,660323-012,660323-014,660323-015,660323-016,660323-017,660323-018,660323-019,660323-020.



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **WH1-Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-001

Date Collected: 04.30.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	55.7	5.00	mg/kg	05.02.2020 14:08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.03.2020 20:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.03.2020 20:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.03.2020 20:21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.03.2020 20:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	05.03.2020 20:21	
o-Terphenyl	84-15-1	81	%	70-130	05.03.2020 20:21	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **WH1-Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-001

Date Collected: 04.30.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.06.2020 04:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.06.2020 04:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.06.2020 04:04	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.06.2020 04:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.06.2020 04:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.06.2020 04:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.06.2020 04:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	135	%	70-130	05.06.2020 04:04	**	
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.06.2020 04:04		



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SH1-1** Matrix: Soil Date Received: 05.01.2020 11:00
 Lab Sample Id: 660323-002 Date Collected: 04.30.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.3	5.02	mg/kg	05.02.2020 14:13		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.03.2020 21:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.03.2020 21:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.03.2020 21:18	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.03.2020 21:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	05.03.2020 21:18	
o-Terphenyl	84-15-1	77	%	70-130	05.03.2020 21:18	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SH1-1**
Lab Sample Id: 660323-002

Matrix: Soil
Date Collected: 04.30.2020 00:00

Date Received: 05.01.2020 11:00
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.06.2020 04:25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.06.2020 04:25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.06.2020 04:25	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.06.2020 04:25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.06.2020 04:25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.06.2020 04:25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.06.2020 04:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	120	%	70-130	05.06.2020 04:25		
4-Bromofluorobenzene	460-00-4	146	%	70-130	05.06.2020 04:25	**	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SP3-Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-003

Date Collected: 04.30.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	541	4.98	mg/kg	05.02.2020 14:29		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.03.2020 21:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	2660	50.0	mg/kg	05.03.2020 21:37		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	680	50.0	mg/kg	05.03.2020 21:37		1
Total TPH	PHC635	3340	50.0	mg/kg	05.03.2020 21:37		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	05.03.2020 21:37	
o-Terphenyl	84-15-1	99	%	70-130	05.03.2020 21:37	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SP3-Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-003

Date Collected: 04.30.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.06.2020 04:45	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.06.2020 04:45	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.06.2020 04:45	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.06.2020 04:45	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.06.2020 04:45	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.06.2020 04:45	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.06.2020 04:45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	151	%	70-130	05.06.2020 04:45	**	
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.06.2020 04:45		



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SP3-4R** Matrix: Soil Date Received: 05.01.2020 11:00
 Lab Sample Id: 660323-004 Date Collected: 04.30.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2790	25.1	mg/kg	05.02.2020 14:34		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.03.2020 21:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	157	49.9	mg/kg	05.03.2020 21:56		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.03.2020 21:56	U	1
Total TPH	PHC635	157	49.9	mg/kg	05.03.2020 21:56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	05.03.2020 21:56	
o-Terphenyl	84-15-1	78	%	70-130	05.03.2020 21:56	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SP3-4R**
Lab Sample Id: 660323-004

Matrix: Soil
Date Collected: 04.30.2020 00:00

Date Received: 05.01.2020 11:00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.06.2020 05:05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.06.2020 05:05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.06.2020 05:05	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.06.2020 05:05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.06.2020 05:05	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.06.2020 05:05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.06.2020 05:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	169	%	70-130	05.06.2020 05:05	**	
1,4-Difluorobenzene	540-36-3	119	%	70-130	05.06.2020 05:05		



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: NH3-Suf

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-005

Date Collected: 04.30.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.2	4.99	mg/kg	05.02.2020 14:39		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.03.2020 22:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.03.2020 22:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.03.2020 22:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.03.2020 22:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	05.03.2020 22:15	
o-Terphenyl	84-15-1	75	%	70-130	05.03.2020 22:15	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: NH3-Suf

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-005

Date Collected: 04.30.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.06.2020 05:25	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.06.2020 05:25	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.06.2020 05:25	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.06.2020 05:25	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.06.2020 05:25	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.06.2020 05:25	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.06.2020 05:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	131	%	70-130	05.06.2020 05:25	**	
1,4-Difluorobenzene	540-36-3	134	%	70-130	05.06.2020 05:25	**	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **NH3-1** Matrix: Soil Date Received: 05.01.2020 11:00
 Lab Sample Id: 660323-006 Date Collected: 04.30.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.22	4.99	mg/kg	05.02.2020 14:44		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.03.2020 22:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.03.2020 22:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.03.2020 22:33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.03.2020 22:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	05.03.2020 22:33	
o-Terphenyl	84-15-1	77	%	70-130	05.03.2020 22:33	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **NH3-1**
Lab Sample Id: 660323-006

Matrix: Soil
Date Collected: 04.30.2020 00:00

Date Received: 05.01.2020 11:00
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.06.2020 06:44	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.06.2020 06:44	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.06.2020 06:44	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.06.2020 06:44	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.06.2020 06:44	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.06.2020 06:44	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.06.2020 06:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	117	%	70-130	05.06.2020 06:44		
4-Bromofluorobenzene	460-00-4	146	%	70-130	05.06.2020 06:44	**	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SH2-1** Matrix: Soil Date Received: 05.01.2020 11:00
 Lab Sample Id: 660323-007 Date Collected: 04.30.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.0	4.97	mg/kg	05.02.2020 14:50		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.04.2020 06:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.04.2020 06:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.04.2020 06:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.04.2020 06:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	05.04.2020 06:42	
o-Terphenyl	84-15-1	78	%	70-130	05.04.2020 06:42	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SH2-1**
Lab Sample Id: 660323-007

Matrix: Soil
Date Collected: 04.30.2020 00:00

Date Received: 05.01.2020 11:00
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.06.2020 07:04	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.06.2020 07:04	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.06.2020 07:04	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.06.2020 07:04	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.06.2020 07:04	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.06.2020 07:04	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.06.2020 07:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	125	%	70-130	05.06.2020 07:04		
4-Bromofluorobenzene	460-00-4	125	%	70-130	05.06.2020 07:04		



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SH2-Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-008

Date Collected: 04.30.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.8	5.02	mg/kg	05.02.2020 14:55		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.04.2020 07:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.04.2020 07:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.04.2020 07:00	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.04.2020 07:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	05.04.2020 07:00	
o-Terphenyl	84-15-1	85	%	70-130	05.04.2020 07:00	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SH2-Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-008

Date Collected: 04.30.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.06.2020 07:24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.06.2020 07:24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.06.2020 07:24	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.06.2020 07:24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.06.2020 07:24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.06.2020 07:24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.06.2020 07:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	133	%	70-130	05.06.2020 07:24	**	
4-Bromofluorobenzene	460-00-4	148	%	70-130	05.06.2020 07:24	**	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SH3-Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-009

Date Collected: 04.30.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.61	4.98	mg/kg	05.02.2020 15:11		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.04.2020 07:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.04.2020 07:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.04.2020 07:19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.04.2020 07:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	05.04.2020 07:19	
o-Terphenyl	84-15-1	78	%	70-130	05.04.2020 07:19	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SH3-Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-009

Date Collected: 04.30.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.06.2020 07:44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.06.2020 07:44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.06.2020 07:44	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.06.2020 07:44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.06.2020 07:44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.06.2020 07:44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.06.2020 07:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	144	%	70-130	05.06.2020 07:44	**	
1,4-Difluorobenzene	540-36-3	119	%	70-130	05.06.2020 07:44		



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SH3-1** Matrix: Soil Date Received: 05.01.2020 11:00
 Lab Sample Id: 660323-010 Date Collected: 04.30.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.99	4.98	mg/kg	05.02.2020 15:16		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.04.2020 07:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.04.2020 07:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.04.2020 07:38	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.04.2020 07:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	05.04.2020 07:38	
o-Terphenyl	84-15-1	80	%	70-130	05.04.2020 07:38	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SH3-1**
Lab Sample Id: 660323-010

Matrix: Soil
Date Collected: 04.30.2020 00:00

Date Received: 05.01.2020 11:00
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.06.2020 08:04	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.06.2020 08:04	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.06.2020 08:04	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.06.2020 08:04	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.06.2020 08:04	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.06.2020 08:04	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.06.2020 08:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	157	%	70-130	05.06.2020 08:04	**	
1,4-Difluorobenzene	540-36-3	125	%	70-130	05.06.2020 08:04		



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SP2-4R** Matrix: Soil Date Received: 05.01.2020 11:00
 Lab Sample Id: 660323-011 Date Collected: 04.30.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2640	25.1	mg/kg	05.02.2020 15:32		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.04.2020 08:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.04.2020 08:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.04.2020 08:16	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.04.2020 08:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	05.04.2020 08:16	
o-Terphenyl	84-15-1	80	%	70-130	05.04.2020 08:16	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SP2-4R**
Lab Sample Id: 660323-011

Matrix: Soil
Date Collected: 04.30.2020 00:00

Date Received: 05.01.2020 11:00
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.06.2020 09:23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.06.2020 09:23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.06.2020 09:23	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.06.2020 09:23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.06.2020 09:23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.06.2020 09:23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.06.2020 09:23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	151	%	70-130	05.06.2020 09:23	**	
1,4-Difluorobenzene	540-36-3	123	%	70-130	05.06.2020 09:23		



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SP1 @ Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-012

Date Collected: 04.30.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.05.2020 12:00

Basis: Wet Weight

Seq Number: 3125116

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3820	25.1	mg/kg	05.05.2020 16:09		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	4130	250	mg/kg	05.04.2020 08:35		5
Diesel Range Organics (DRO)	C10C28DRO	24000	250	mg/kg	05.04.2020 08:35		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	2460	250	mg/kg	05.04.2020 08:35		5
Total TPH	PHC635	30600	250	mg/kg	05.04.2020 08:35		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-130	05.04.2020 08:35	
o-Terphenyl	84-15-1	104	%	70-130	05.04.2020 08:35	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SP1 @ Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-012

Date Collected: 04.30.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	9.98	0.998	mg/kg	05.09.2020 00:14	D	500
Toluene	108-88-3	112	0.998	mg/kg	05.09.2020 00:14	D	500
Ethylbenzene	100-41-4	147	0.998	mg/kg	05.09.2020 00:14	D	500
m,p-Xylenes	179601-23-1	72.8	2.00	mg/kg	05.09.2020 00:14	D	500
o-Xylene	95-47-6	33.7	0.998	mg/kg	05.09.2020 00:14	D	500
Total Xylenes	1330-20-7	107	0.998	mg/kg	05.09.2020 00:14		500
Total BTEX		375	0.998	mg/kg	05.09.2020 00:14		500
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	1757	%	70-130	05.06.2020 09:43	**	
1,4-Difluorobenzene	540-36-3	225	%	70-130	05.06.2020 09:43	**	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SP1 @ 4'** Matrix: Soil Date Received: 05.01.2020 11:00
 Lab Sample Id: 660323-013 Date Collected: 04.30.2020 00:00 Sample Depth: 4
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5620	49.8	mg/kg	05.02.2020 15:42		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.04.2020 08:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	229	50.0	mg/kg	05.04.2020 08:54		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.04.2020 08:54	U	1
Total TPH	PHC635	229	50.0	mg/kg	05.04.2020 08:54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	05.04.2020 08:54	
o-Terphenyl	84-15-1	96	%	70-130	05.04.2020 08:54	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SP1 @ 4'**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-013

Date Collected: 04.30.2020 00:00

Sample Depth: 4

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.08.2020 12:00

Basis: Wet Weight

Seq Number: 3125496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0410	0.0198	mg/kg	05.08.2020 23:53		10
Toluene	108-88-3	<0.0198	0.0198	mg/kg	05.08.2020 23:53	U	10
Ethylbenzene	100-41-4	0.0552	0.0198	mg/kg	05.08.2020 23:53		10
m,p-Xylenes	179601-23-1	0.0436	0.0397	mg/kg	05.08.2020 23:53		10
o-Xylene	95-47-6	0.0400	0.0198	mg/kg	05.08.2020 23:53		10
Total Xylenes	1330-20-7	0.0836	0.0198	mg/kg	05.08.2020 23:53		10
Total BTEX		0.180	0.0198	mg/kg	05.08.2020 23:53		10
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	05.08.2020 23:53		
1,4-Difluorobenzene	540-36-3	116	%	70-130	05.08.2020 23:53		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SP2 @ Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-014

Date Collected: 04.30.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6490	49.7	mg/kg	05.02.2020 15:48		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.04.2020 10:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	115	50.0	mg/kg	05.04.2020 10:09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	94.1	50.0	mg/kg	05.04.2020 10:09		1
Total TPH	PHC635	209	50.0	mg/kg	05.04.2020 10:09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	05.04.2020 10:09	
o-Terphenyl	84-15-1	83	%	70-130	05.04.2020 10:09	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SP2 @ Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-014

Date Collected: 04.30.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.06.2020 10:24	U	1
Toluene	108-88-3	0.00562	0.00198	mg/kg	05.06.2020 10:24		1
Ethylbenzene	100-41-4	0.105	0.00198	mg/kg	05.06.2020 10:24		1
m,p-Xylenes	179601-23-1	0.0709	0.00396	mg/kg	05.06.2020 10:24		1
o-Xylene	95-47-6	0.0215	0.00198	mg/kg	05.06.2020 10:24		1
Total Xylenes	1330-20-7	0.0924	0.00198	mg/kg	05.06.2020 10:24		1
Total BTEX		0.203	0.00198	mg/kg	05.06.2020 10:24		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	121	%	70-130	05.06.2020 10:24		
4-Bromofluorobenzene	460-00-4	243	%	70-130	05.06.2020 10:24	**	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **NH2-1** Matrix: Soil Date Received: 05.01.2020 11:00
 Lab Sample Id: 660323-015 Date Collected: 04.30.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	26.7	5.01	mg/kg	05.02.2020 15:53		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.04.2020 09:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.04.2020 09:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.04.2020 09:32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.04.2020 09:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	05.04.2020 09:32	
o-Terphenyl	84-15-1	90	%	70-130	05.04.2020 09:32	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **NH2-1**
Lab Sample Id: 660323-015

Matrix: Soil
Date Collected: 04.30.2020 00:00

Date Received: 05.01.2020 11:00
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.06.2020 10:44	U	1
Toluene	108-88-3	0.00262	0.00199	mg/kg	05.06.2020 10:44		1
Ethylbenzene	100-41-4	0.00344	0.00199	mg/kg	05.06.2020 10:44		1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.06.2020 10:44	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.06.2020 10:44	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.06.2020 10:44	U	1
Total BTEX		0.00606	0.00199	mg/kg	05.06.2020 10:44		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	131	%	70-130	05.06.2020 10:44	**	
4-Bromofluorobenzene	460-00-4	181	%	70-130	05.06.2020 10:44	**	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **WH@1'** Matrix: Soil Date Received: 05.01.2020 11:00
 Lab Sample Id: 660323-016 Date Collected: 04.30.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.9	5.03	mg/kg	05.02.2020 15:58		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.04.2020 09:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.04.2020 09:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.04.2020 09:50	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.04.2020 09:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	05.04.2020 09:50	
o-Terphenyl	84-15-1	80	%	70-130	05.04.2020 09:50	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **WH@1'**
Lab Sample Id: 660323-016

Matrix: Soil
Date Collected: 04.30.2020 00:00

Date Received: 05.01.2020 11:00
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.06.2020 11:04	U	1
Toluene	108-88-3	0.00216	0.00200	mg/kg	05.06.2020 11:04		1
Ethylbenzene	100-41-4	0.00274	0.00200	mg/kg	05.06.2020 11:04		1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.06.2020 11:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.06.2020 11:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.06.2020 11:04	U	1
Total BTEX		0.00490	0.00200	mg/kg	05.06.2020 11:04		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	166	%	70-130	05.06.2020 11:04	**	
1,4-Difluorobenzene	540-36-3	127	%	70-130	05.06.2020 11:04		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **NH1 @ 1'** Matrix: Soil Date Received: 05.01.2020 11:00
 Lab Sample Id: 660323-017 Date Collected: 04.30.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124964

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.89	4.99	mg/kg	05.02.2020 16:04		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.02.2020 12:00 Basis: Wet Weight
 Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.04.2020 10:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.04.2020 10:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.04.2020 10:46	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.04.2020 10:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	05.04.2020 10:46	
o-Terphenyl	84-15-1	92	%	70-130	05.04.2020 10:46	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **NH1 @ 1'**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-017

Date Collected: 04.30.2020 00:00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.06.2020 11:24	U	1
Toluene	108-88-3	0.00237	0.00199	mg/kg	05.06.2020 11:24		1
Ethylbenzene	100-41-4	0.00364	0.00199	mg/kg	05.06.2020 11:24		1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.06.2020 11:24	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.06.2020 11:24	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.06.2020 11:24	U	1
Total BTEX		0.00601	0.00199	mg/kg	05.06.2020 11:24		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	158	%	70-130	05.06.2020 11:24	**	
1,4-Difluorobenzene	540-36-3	130	%	70-130	05.06.2020 11:24		



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SH1 @ Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-018

Date Collected: 04.30.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 05.02.2020 12:15

Basis: Wet Weight

Seq Number: 3124966

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	76.5	5.01	mg/kg	05.02.2020 16:35	X	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.04.2020 11:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.04.2020 11:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.04.2020 11:04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.04.2020 11:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	05.04.2020 11:04	
o-Terphenyl	84-15-1	91	%	70-130	05.04.2020 11:04	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **SH1 @ Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-018

Date Collected: 04.30.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.06.2020 11:44	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.06.2020 11:44	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.06.2020 11:44	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.06.2020 11:44	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.06.2020 11:44	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.06.2020 11:44	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.06.2020 11:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	154	%	70-130	05.06.2020 11:44	**	
1,4-Difluorobenzene	540-36-3	125	%	70-130	05.06.2020 11:44		



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: NH2 @ Surf

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-019

Date Collected: 04.30.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 05.02.2020 12:15

Basis: Wet Weight

Seq Number: 3124966

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.8	5.03	mg/kg	05.02.2020 16:51		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.04.2020 11:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.04.2020 11:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.04.2020 11:23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.04.2020 11:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	05.04.2020 11:23	
o-Terphenyl	84-15-1	82	%	70-130	05.04.2020 11:23	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **NH2 @ Surf**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-019

Date Collected: 04.30.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.06.2020 12:04	U	1
Toluene	108-88-3	0.00227	0.00199	mg/kg	05.06.2020 12:04		1
Ethylbenzene	100-41-4	0.00374	0.00199	mg/kg	05.06.2020 12:04		1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.06.2020 12:04	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.06.2020 12:04	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.06.2020 12:04	U	1
Total BTEX		0.00601	0.00199	mg/kg	05.06.2020 12:04		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	141	%	70-130	05.06.2020 12:04	**	
1,4-Difluorobenzene	540-36-3	133	%	70-130	05.06.2020 12:04	**	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **NH1 @ Surface**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-020

Date Collected: 04.30.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 05.02.2020 12:15

Basis: Wet Weight

Seq Number: 3124966

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.5	5.05	mg/kg	05.02.2020 16:57		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.02.2020 12:00

Basis: Wet Weight

Seq Number: 3124917

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.04.2020 11:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.04.2020 11:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.04.2020 11:41	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.04.2020 11:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	05.04.2020 11:41	
o-Terphenyl	84-15-1	77	%	70-130	05.04.2020 11:41	



Certificate of Analytical Results 660323

Etech Environmental & Safety Solution, Inc, Midland, TX

Conco #1

Sample Id: **NH1 @ Surface**

Matrix: Soil

Date Received: 05.01.2020 11:00

Lab Sample Id: 660323-020

Date Collected: 04.30.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.05.2020 17:15

Basis: Wet Weight

Seq Number: 3125202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.06.2020 12:25	U	1
Toluene	108-88-3	0.00324	0.00199	mg/kg	05.06.2020 12:25		1
Ethylbenzene	100-41-4	0.0167	0.00199	mg/kg	05.06.2020 12:25		1
m,p-Xylenes	179601-23-1	0.0126	0.00398	mg/kg	05.06.2020 12:25		1
o-Xylene	95-47-6	0.00750	0.00199	mg/kg	05.06.2020 12:25		1
Total Xylenes	1330-20-7	0.0201	0.00199	mg/kg	05.06.2020 12:25		1
Total BTEX		0.0400	0.00199	mg/kg	05.06.2020 12:25		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	120	%	70-130	05.06.2020 12:25		
4-Bromofluorobenzene	460-00-4	161	%	70-130	05.06.2020 12:25	**	



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

Conco #1

Analytical Method: Chloride by EPA 300

Seq Number: 3124964

MB Sample Id: 7702585-1-BLK

Matrix: Solid

LCS Sample Id: 7702585-1-BKS

Prep Method: E300P

Date Prep: 05.02.2020

LCSD Sample Id: 7702585-1-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	243	97	242	97	90-110	0	20	mg/kg	05.02.2020 13:31	

Analytical Method: Chloride by EPA 300

Seq Number: 3124966

MB Sample Id: 7702586-1-BLK

Matrix: Solid

LCS Sample Id: 7702586-1-BKS

Prep Method: E300P

Date Prep: 05.02.2020

LCSD Sample Id: 7702586-1-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	254	102	246	98	90-110	3	20	mg/kg	05.03.2020 12:13	

Analytical Method: Chloride by EPA 300

Seq Number: 3125116

MB Sample Id: 7702747-1-BLK

Matrix: Solid

LCS Sample Id: 7702747-1-BKS

Prep Method: E300P

Date Prep: 05.05.2020

LCSD Sample Id: 7702747-1-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	261	104	244	98	90-110	7	20	mg/kg	05.05.2020 13:15	

Analytical Method: Chloride by EPA 300

Seq Number: 3124964

Parent Sample Id: 660323-008

Matrix: Soil

MS Sample Id: 660323-008 S

Prep Method: E300P

Date Prep: 05.02.2020

MSD Sample Id: 660323-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	25.8	251	268	96	265	95	90-110	1	20	mg/kg	05.02.2020 15:00	

Analytical Method: Chloride by EPA 300

Seq Number: 3124964

Parent Sample Id: 660369-002

Matrix: Soil

MS Sample Id: 660369-002 S

Prep Method: E300P

Date Prep: 05.02.2020

MSD Sample Id: 660369-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	37.2	248	295	104	286	100	90-110	3	20	mg/kg	05.02.2020 13:46	

Analytical Method: Chloride by EPA 300

Seq Number: 3124966

Parent Sample Id: 660323-018

Matrix: Soil

MS Sample Id: 660323-018 S

Prep Method: E300P

Date Prep: 05.02.2020

MSD Sample Id: 660323-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	76.5	251	359	113	353	110	90-110	2	20	mg/kg	05.02.2020 16:41	X

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

Conco #1

Analytical Method: Chloride by EPA 300

Seq Number: 3124966

Parent Sample Id: 660367-001

Matrix: Soil

MS Sample Id: 660367-001 S

Prep Method: E300P

Date Prep: 05.02.2020

MSD Sample Id: 660367-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	661	249	855	78	871	84	90-110	2	20	mg/kg	05.02.2020 17:54	X

Analytical Method: Chloride by EPA 300

Seq Number: 3125116

Parent Sample Id: 660477-005

Matrix: Soil

MS Sample Id: 660477-005 S

Prep Method: E300P

Date Prep: 05.05.2020

MSD Sample Id: 660477-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	149	249	376	91	380	93	90-110	1	20	mg/kg	05.05.2020 13:42	

Analytical Method: Chloride by EPA 300

Seq Number: 3125116

Parent Sample Id: 660477-016

Matrix: Soil

MS Sample Id: 660477-016 S

Prep Method: E300P

Date Prep: 05.05.2020

MSD Sample Id: 660477-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.6	252	262	95	260	94	90-110	1	20	mg/kg	05.05.2020 15:11	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3124917

MB Sample Id: 7702631-1-BLK

Matrix: Solid

LCS Sample Id: 7702631-1-BKS

Prep Method: SW8015P

Date Prep: 05.02.2020

LCSD Sample Id: 7702631-1-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	884	88	882	88	70-130	0	20	mg/kg	05.03.2020 19:42	
Diesel Range Organics (DRO)	<50.0	1000	951	95	946	95	70-130	1	20	mg/kg	05.03.2020 19:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	75		93		93		70-130	%	05.03.2020 19:42
o-Terphenyl	78		83		84		70-130	%	05.03.2020 19:42

Analytical Method: TPH By SW8015 Mod

Seq Number: 3124917

Matrix: Solid

MB Sample Id: 7702631-1-BLK

Prep Method: SW8015P

Date Prep: 05.02.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.03.2020 19:23	

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

Conco #1

Analytical Method: TPH By SW8015 Mod

Seq Number: 3124917

Parent Sample Id: 660323-001

Matrix: Soil

MS Sample Id: 660323-001 S

Prep Method: SW8015P

Date Prep: 05.02.2020

MSD Sample Id: 660323-001 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	955	96	1010	101	70-130	6	20	mg/kg	05.03.2020 20:40	
Diesel Range Organics (DRO)	<49.9	997	1050	105	1120	112	70-130	6	20	mg/kg	05.03.2020 20:40	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		102		70-130	%	05.03.2020 20:40
o-Terphenyl	87		96		70-130	%	05.03.2020 20:40

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125202

MB Sample Id: 7702821-1-BLK

Matrix: Solid

LCS Sample Id: 7702821-1-BKS

Prep Method: SW5035A

Date Prep: 05.05.2020

LCSD Sample Id: 7702821-1-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	0.113	113	0.0960	96	70-130	16	35	mg/kg	05.06.2020 01:46	
Toluene	<0.00200	0.100	0.109	109	0.114	114	70-130	4	35	mg/kg	05.06.2020 01:46	
Ethylbenzene	<0.00200	0.100	0.110	110	0.116	116	70-130	5	35	mg/kg	05.06.2020 01:46	
m,p-Xylenes	<0.00400	0.200	0.227	114	0.248	124	70-130	9	35	mg/kg	05.06.2020 01:46	
o-Xylene	<0.00200	0.100	0.114	114	0.115	115	70-130	1	35	mg/kg	05.06.2020 01:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		108		106		70-130	%	05.06.2020 01:46
4-Bromofluorobenzene	101		162	**	223	**	70-130	%	05.06.2020 01:46

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125496

MB Sample Id: 7703002-1-BLK

Matrix: Solid

LCS Sample Id: 7703002-1-BKS

Prep Method: SW5035A

Date Prep: 05.08.2020

LCSD Sample Id: 7703002-1-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	0.0852	85	0.0812	81	70-130	5	35	mg/kg	05.08.2020 14:43	
Toluene	<0.00200	0.100	0.0853	85	0.0813	81	70-130	5	35	mg/kg	05.08.2020 14:43	
Ethylbenzene	<0.00200	0.100	0.0900	90	0.0848	85	70-130	6	35	mg/kg	05.08.2020 14:43	
m,p-Xylenes	<0.00400	0.200	0.175	88	0.164	82	70-130	6	35	mg/kg	05.08.2020 14:43	
o-Xylene	<0.00200	0.100	0.0910	91	0.0855	86	70-130	6	35	mg/kg	05.08.2020 14:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		102		102		70-130	%	05.08.2020 14:43
4-Bromofluorobenzene	95		103		99		70-130	%	05.08.2020 14:43

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
Conco #1

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125202

Parent Sample Id: 660323-001

Matrix: Soil

MS Sample Id: 660323-001 S

Prep Method: SW5035A

Date Prep: 05.05.2020

MSD Sample Id: 660323-001 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	0.0998	0.103	103	0.101	101	70-130	2	35	mg/kg	05.06.2020 02:26	
Toluene	<0.00200	0.0998	0.0966	97	0.0980	98	70-130	1	35	mg/kg	05.06.2020 02:26	
Ethylbenzene	<0.00200	0.0998	0.103	103	0.104	104	70-130	1	35	mg/kg	05.06.2020 02:26	
m,p-Xylenes	<0.00399	0.200	0.206	103	0.209	105	70-130	1	35	mg/kg	05.06.2020 02:26	
o-Xylene	<0.00200	0.0998	0.104	104	0.105	105	70-130	1	35	mg/kg	05.06.2020 02:26	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	114		121		70-130	%	05.06.2020 02:26
4-Bromofluorobenzene	173	**	183	**	70-130	%	05.06.2020 02:26

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125496

Parent Sample Id: 660426-024

Matrix: Soil

MS Sample Id: 660426-024 S

Prep Method: SW5035A

Date Prep: 05.08.2020

MSD Sample Id: 660426-024 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	0.0912	91	0.0858	85	70-130	6	35	mg/kg	05.08.2020 15:24	
Toluene	<0.00200	0.0998	0.0899	90	0.0825	82	70-130	9	35	mg/kg	05.08.2020 15:24	
Ethylbenzene	<0.00200	0.0998	0.0952	95	0.0859	85	70-130	10	35	mg/kg	05.08.2020 15:24	
m,p-Xylenes	<0.00399	0.200	0.186	93	0.167	83	70-130	11	35	mg/kg	05.08.2020 15:24	
o-Xylene	<0.00200	0.0998	0.0956	96	0.0864	86	70-130	10	35	mg/kg	05.08.2020 15:24	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		103		70-130	%	05.08.2020 15:24
4-Bromofluorobenzene	104		99		70-130	%	05.08.2020 15:24

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

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 (904) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8800

Work Order No:

1060323

www.xenco.com Page of

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

Work Order Comments	
Program: UST/PST	PRP
State of Project:	Brownfields
Reporting Level I	Level II
Level I	PST/UST
Level II	TRR
Deliverables: EDD	ADAPT
	Other:

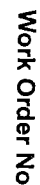
Project Name:	Condo #1	Turn Around	
Project Number:		Routine:	☐
Project Location:		Rush:	☐
Sample's Name:		Due Date:	
PO #:			
SAMPLE RECEIPT	Temp Blank:	Yes	No
Temperature (°C):		Wet Ice:	Yes
Received Inact:	Yes	No	
Cooler Custody Seals:	Yes	No	
Sample Custody Seals:	Yes	No	
	Correction Factor:		
	Thermometer ID		
	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	ANALYSIS REQUEST	Preservative Codes
WH1-Surf		4/30/20		Surf	Chloride E300		HNO3: HN
SH1-1		4/30/20		1	BTEX 8021		H2SO4: H2
SP3-Surf		4/30/20		Surf	TPH Modified Ext		HCL: HL
SP3-4R		4/30/20		4'	TPH TX1005		None: NO
NH3-Surf		4/30/20		Surf			NaOH: Na
NH3-1		4/30/20		1			MeOH: Me
SH2-Surf		4/30/20		Surf			Zn Acetate+ NaOH: Zn
SH3-Surf		4/30/20		Surf			TAT starts the day received by the lab, if received by 4:30pm
SH3-1		4/30/20		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

Notes: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and sub-contractors. 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. Julie Ann	Teressa Henderson	4/30/20	2. Teressa Henderson		
3.			4.		
5.			6.		



Allianta, GA (770) 449-8800

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Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level I ☐ Level II ☐ PST/UST ☐ TRRL ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

TAT						Preservative Codes
						HNO ₃ : HN
						H ₂ SO ₄ : H2
						HCL: HL
						None: NO
						NaOH: Na
						MeOH: Me
						Zn Acetate+ NaOH: Zn

[illegible][illegible]

Received by: (Signature)	Date/Time
<i>[Signature]</i>	



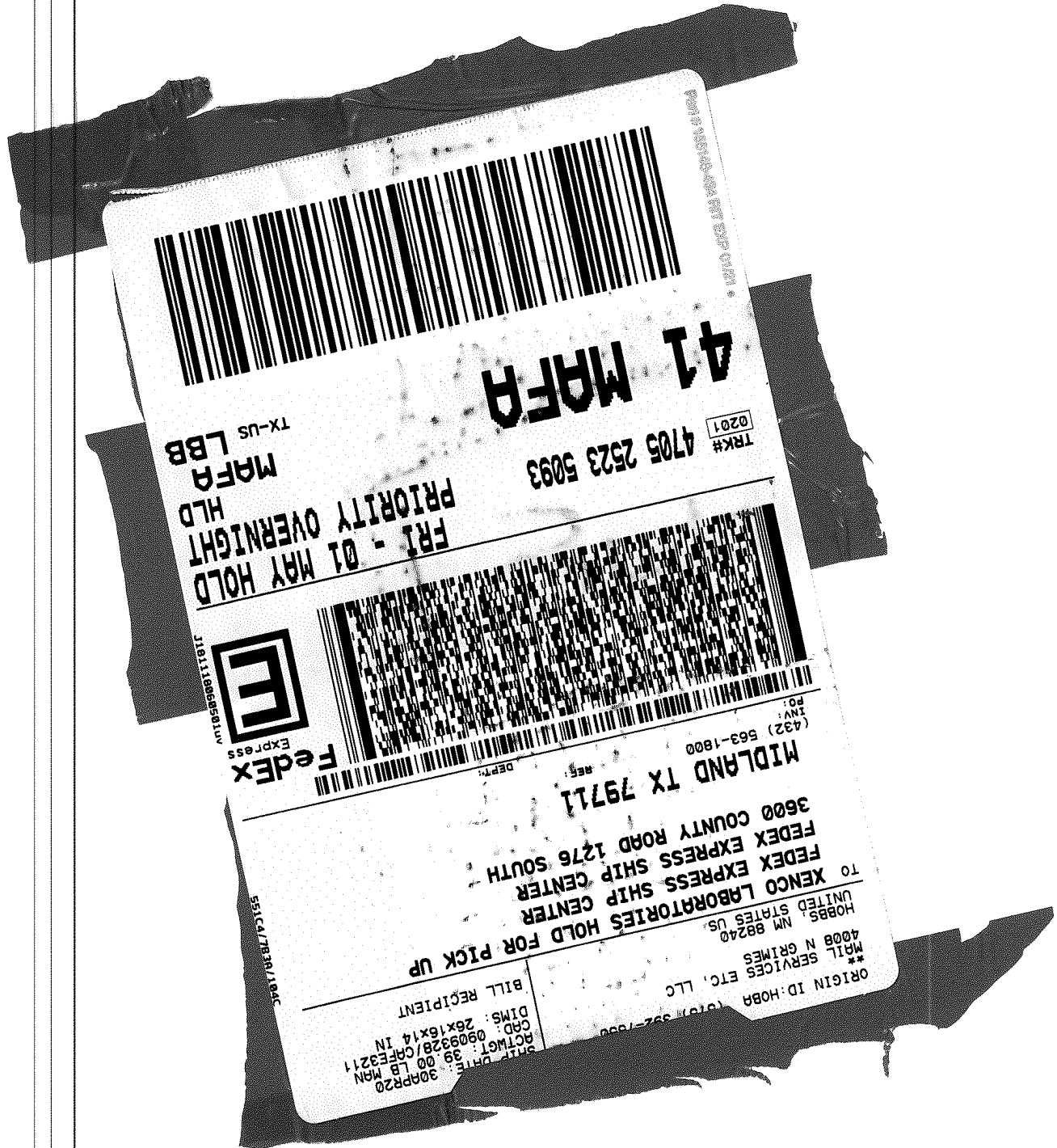
100573

ANALYSIS REQUEST										Preservative Codes	
Project Name:	Canoch #					Turn Around				HNO3: HN	
Project Number:						Routine: ☐				H2SO4: H2	
Project Location						Rush: ☐				HCL: HL	
Sampler's Name:	Miguel					Due Date:				None: NO	
PO #:										NaOH: Na	
SAMPLE RECEIPT						Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):						Thermometer ID					
Received Inact:						Yes No					
Cooler Custody Seals:						Yes	No	N/A	Correction Factor:		
Sample Custody Seals:						Yes	No	N/A	Total Containers:		
Number of Containers/Preservative											
E300											
121											
Identified Ext											
0005											
TAT starts the day received by the lab, if received by 4:30pm											

Circle 200: 1 5010 200.8 6020:
Circle Method(s) and Metal(s) to be analyzed
 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
 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

of service, Xenoco will be liable only for the cost of samples and shall not assume any responsibility for client company to Xenoco, its affiliates and subcontractors. It assumes standard terms and conditions of Xenoco. A minimum charge of \$75.00 will be applied to each project and a charge of \$3 for each sample submitted to Xenoco, but not analyzed. These terms will be enforced unless previously negotiated.

1631 / 245.1 / 7470 / 7471: Hg



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 05.01.2020 11.00.00 AM

Work Order #: 660323

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.1
#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

BTEX was in bulk container

* 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: 05.01.2020

Checklist reviewed by:



Jessica Kramer

Date: 05.01.2020



Certificate of Analysis Summary 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #1

Project Id:

Date Received in Lab: Mon 05.04.2020 10:15

Contact: PM

Report Date: 05.12.2020 15:35

Project Location:

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	660467-001	660467-002	660467-003	660467-004	660467-005	660467-006
	<i>Field Id:</i>	SP4-Surf	SP4-4R	SP5-Surf	SP5-4R	EH1-Surf	EH1-1'
	<i>Depth:</i>		4- ft		4- ft		1- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	05.01.2020 00:00	05.01.2020 00:00	05.01.2020 00:00	05.01.2020 00:00	05.01.2020 00:00	05.01.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	05.10.2020 08:00	05.10.2020 08:00	05.10.2020 08:00	05.11.2020 08:00	05.11.2020 08:00	05.11.2020 08:00
	<i>Analyzed:</i>	05.11.2020 06:55	05.11.2020 07:15	05.11.2020 09:38	05.11.2020 11:53	05.11.2020 12:13	05.11.2020 12:33
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	0.350 0.0998	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00200 0.00200	15.9 0.0998	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	72.5 D 0.399	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	21.4 0.200	<0.00399 0.00399	<0.00401 0.00401	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	11.2 0.0998	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	32.6 0.0998	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	121 0.0998	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	05.04.2020 16:55	05.04.2020 16:55	05.04.2020 16:55	05.04.2020 16:55	05.04.2020 16:55	05.04.2020 16:55
	<i>Analyzed:</i>	05.04.2020 23:23	05.05.2020 00:38	05.05.2020 00:45	05.05.2020 00:52	05.05.2020 00:59	05.05.2020 01:19
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		332 4.96	2080 24.8	9420 49.6	13300 99.6	7.01 4.97	<4.97 4.97
TPH By SW8015 Mod	<i>Extracted:</i>	05.04.2020 14:00	05.04.2020 14:00	05.04.2020 14:00	05.04.2020 14:00	05.04.2020 14:00	05.04.2020 14:00
	<i>Analyzed:</i>	05.04.2020 20:59	05.04.2020 19:55	05.04.2020 21:20	05.04.2020 21:41	05.04.2020 22:02	05.04.2020 22:23
	<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	419 49.9	<49.9 49.9	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		102 50.0	<50.0 50.0	6360 49.9	136 49.9	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	711 49.9	82.5 49.9	<49.8 49.8	<50.0 50.0
Total TPH		102 50.0	<50.0 50.0	7490 49.9	219 49.9	<49.8 49.8	<50.0 50.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #1

Project Id:

Contact: PM

Project Location:

Date Received in Lab: Mon 05.04.2020 10:15

Report Date: 05.12.2020 15:35

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	660467-007	660467-008	660467-009	660467-010		
	<i>Field Id:</i>	NH4-Surf	NH4-1'	SH4-Surf	SH4-1'		
	<i>Depth:</i>		1- ft		1- ft		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	05.01.2020 00:00	05.01.2020 00:00	05.01.2020 00:00	05.01.2020 00:00		
BTEX by EPA 8021B	<i>Extracted:</i>	05.11.2020 08:00	05.11.2020 08:00	05.11.2020 08:00	05.11.2020 08:00		
	<i>Analyzed:</i>	05.11.2020 12:53	05.11.2020 13:13	05.11.2020 13:33	05.11.2020 13:54		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198		
Toluene		<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198		
Ethylbenzene		<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198		
m,p-Xylenes		<0.00397 0.00397	<0.00398 0.00398	<0.00399 0.00399	<0.00397 0.00397		
o-Xylene		<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198		
Total Xylenes		<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198		
Total BTEX		<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198		
Chloride by EPA 300	<i>Extracted:</i>	05.04.2020 16:55	05.04.2020 16:55	05.04.2020 16:55	05.04.2020 16:55		
	<i>Analyzed:</i>	05.05.2020 01:26	05.05.2020 01:47	05.05.2020 01:54	05.05.2020 02:01		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		10.4 5.00	<5.01 5.01	<5.05 5.05	<4.98 4.98		
TPH By SW8015 Mod	<i>Extracted:</i>	05.04.2020 14:00	05.04.2020 14:00	05.04.2020 14:00	05.04.2020 14:00		
	<i>Analyzed:</i>	05.04.2020 22:44	05.04.2020 23:05	05.04.2020 23:26	05.04.2020 23:47		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0		
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0		
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0		
Total TPH		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager



Analytical Report 660467

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Conoco #1

05.12.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.12.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: XENCO Report No(s): **660467**

Conoco #1

Project Address:

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 XENCO Report Number(s) 660467. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 660467 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'. The signature is written in a cursive, flowing style.

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 660467****Etech Environmental & Safety Solution, Inc, Midland, TX**

Conoco #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP4-Surf	S	05.01.2020 00:00		660467-001
SP4-4R	S	05.01.2020 00:00	4 ft	660467-002
SP5-Surf	S	05.01.2020 00:00		660467-003
SP5-4R	S	05.01.2020 00:00	4 ft	660467-004
EH1-Surf	S	05.01.2020 00:00		660467-005
EH1-1'	S	05.01.2020 00:00	1 ft	660467-006
NH4-Surf	S	05.01.2020 00:00		660467-007
NH4-1'	S	05.01.2020 00:00	1 ft	660467-008
SH4-Surf	S	05.01.2020 00:00		660467-009
SH4-1'	S	05.01.2020 00:00	1 ft	660467-010

**CASE NARRATIVE****Client Name: Etech Environmental & Safety Solution, Inc****Project Name: Conoco #1**Project ID:
Work Order Number(s): 660467Report Date: 05.12.2020
Date Received: 05.04.2020**Sample receipt non conformances and comments:****Sample receipt non conformances and comments per sample:**

None

Analytical non conformances and comments:

Batch: LBA-3125069 TPH By SW8015 Mod

Surrogate 1-Chlorooctane, Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 660467-003.

Batch: LBA-3125574 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 660467-003.

Batch: LBA-3125618 BTEX by EPA 8021B

Ethylbenzene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 660467-004, -005, -006, -007, -008, -009, -010

Lab Sample ID 660467-010 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 660467-004, -005, -006, -007, -008, -009, -010.

The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7703120-1-BLK, 660467-010 S.



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SP4-Surf**

Matrix: Soil

Date Received: 05.04.2020 10:15

Lab Sample Id: 660467-001

Date Collected: 05.01.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 05.04.2020 16:55

Basis: Wet Weight

Seq Number: 3125066

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	332	4.96	mg/kg	05.04.2020 23:23		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.04.2020 14:00

Basis: Wet Weight

Seq Number: 3125069

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.04.2020 20:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	102	50.0	mg/kg	05.04.2020 20:59		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.04.2020 20:59	U	1
Total TPH	PHC635	102	50.0	mg/kg	05.04.2020 20:59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	05.04.2020 20:59	
o-Terphenyl	84-15-1	104	%	70-130	05.04.2020 20:59	



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SP4-Surf**

Matrix: Soil

Date Received: 05.04.2020 10:15

Lab Sample Id: 660467-001

Date Collected: 05.01.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.10.2020 08:00

Basis: Wet Weight

Seq Number: 3125574

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.11.2020 06:55	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.11.2020 06:55	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.11.2020 06:55	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.11.2020 06:55	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.11.2020 06:55	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.11.2020 06:55	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.11.2020 06:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	05.11.2020 06:55		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.11.2020 06:55		



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SP4-4R** Matrix: Soil Date Received: 05.04.2020 10:15
 Lab Sample Id: 660467-002 Date Collected: 05.01.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.04.2020 16:55 Basis: Wet Weight
 Seq Number: 3125066

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2080	24.8	mg/kg	05.05.2020 00:38		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.04.2020 14:00 Basis: Wet Weight
 Seq Number: 3125069

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.04.2020 19:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.04.2020 19:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.04.2020 19:55	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.04.2020 19:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	05.04.2020 19:55	
o-Terphenyl	84-15-1	98	%	70-130	05.04.2020 19:55	



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SP4-4R**
Lab Sample Id: 660467-002

Matrix: Soil
Date Collected: 05.01.2020 00:00

Date Received: 05.04.2020 10:15
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3125574

Prep Method: SW5035A

% Moisture:

Date Prep: 05.10.2020 08:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.11.2020 07:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.11.2020 07:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.11.2020 07:15	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.11.2020 07:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.11.2020 07:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.11.2020 07:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.11.2020 07:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.11.2020 07:15		
4-Bromofluorobenzene	460-00-4	116	%	70-130	05.11.2020 07:15		



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SP5-Surf**

Matrix: Soil

Date Received: 05.04.2020 10:15

Lab Sample Id: 660467-003

Date Collected: 05.01.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 05.04.2020 16:55

Basis: Wet Weight

Seq Number: 3125066

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9420	49.6	mg/kg	05.05.2020 00:45		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.04.2020 14:00

Basis: Wet Weight

Seq Number: 3125069

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	419	49.9	mg/kg	05.04.2020 21:20		5
Diesel Range Organics (DRO)	C10C28DRO	6360	49.9	mg/kg	05.04.2020 21:20		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	711	49.9	mg/kg	05.04.2020 21:20		5
Total TPH	PHC635	7490	49.9	mg/kg	05.04.2020 21:20		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	23	%	70-130	05.04.2020 21:20	***
o-Terphenyl	84-15-1	18	%	70-130	05.04.2020 21:20	***



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SP5-Surf**

Matrix: Soil

Date Received: 05.04.2020 10:15

Lab Sample Id: 660467-003

Date Collected: 05.01.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.10.2020 08:00

Basis: Wet Weight

Seq Number: 3125574

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.350	0.0998	mg/kg	05.11.2020 09:38		50
Toluene	108-88-3	15.9	0.0998	mg/kg	05.11.2020 09:38		50
Ethylbenzene	100-41-4	72.5	0.399	mg/kg	05.12.2020 14:18	D	200
m,p-Xylenes	179601-23-1	21.4	0.200	mg/kg	05.11.2020 09:38		50
o-Xylene	95-47-6	11.2	0.0998	mg/kg	05.11.2020 09:38		50
Total Xylenes	1330-20-7	32.6	0.0998	mg/kg	05.11.2020 09:38		50
Total BTEX		121	0.0998	mg/kg	05.12.2020 14:18		200
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	258	%	70-130	05.11.2020 09:38	**	
1,4-Difluorobenzene	540-36-3	91	%	70-130	05.11.2020 09:38		



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SP5-4R** Matrix: Soil Date Received: 05.04.2020 10:15
 Lab Sample Id: 660467-004 Date Collected: 05.01.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.04.2020 16:55 Basis: Wet Weight
 Seq Number: 3125066

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13300	99.6	mg/kg	05.05.2020 00:52		20

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.04.2020 14:00 Basis: Wet Weight
 Seq Number: 3125069

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.04.2020 21:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	136	49.9	mg/kg	05.04.2020 21:41		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	82.5	49.9	mg/kg	05.04.2020 21:41		1
Total TPH	PHC635	219	49.9	mg/kg	05.04.2020 21:41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	05.04.2020 21:41	
o-Terphenyl	84-15-1	99	%	70-130	05.04.2020 21:41	



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SP5-4R**
Lab Sample Id: 660467-004

Matrix: Soil
Date Collected: 05.01.2020 00:00

Date Received: 05.04.2020 10:15
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.11.2020 08:00

Basis: Wet Weight

Seq Number: 3125618

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.11.2020 11:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.11.2020 11:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.11.2020 11:53	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.11.2020 11:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.11.2020 11:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.11.2020 11:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.11.2020 11:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	80	%	70-130	05.11.2020 11:53		
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.11.2020 11:53		



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **EH1-Surf**

Matrix: Soil

Date Received: 05.04.2020 10:15

Lab Sample Id: 660467-005

Date Collected: 05.01.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 05.04.2020 16:55

Basis: Wet Weight

Seq Number: 3125066

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.01	4.97	mg/kg	05.05.2020 00:59		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.04.2020 14:00

Basis: Wet Weight

Seq Number: 3125069

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.04.2020 22:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.04.2020 22:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.04.2020 22:02	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.04.2020 22:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	05.04.2020 22:02	
o-Terphenyl	84-15-1	101	%	70-130	05.04.2020 22:02	



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **EH1-Surf**

Matrix: Soil

Date Received: 05.04.2020 10:15

Lab Sample Id: 660467-005

Date Collected: 05.01.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.11.2020 08:00

Basis: Wet Weight

Seq Number: 3125618

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.11.2020 12:13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.11.2020 12:13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.11.2020 12:13	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.11.2020 12:13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.11.2020 12:13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.11.2020 12:13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.11.2020 12:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	83	%	70-130	05.11.2020 12:13	
1,4-Difluorobenzene	540-36-3	104	%	70-130	05.11.2020 12:13	



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **EH1-1'** Matrix: Soil Date Received: 05.04.2020 10:15
 Lab Sample Id: 660467-006 Date Collected: 05.01.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.04.2020 16:55 Basis: Wet Weight
 Seq Number: 3125066

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	05.05.2020 01:19	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.04.2020 14:00 Basis: Wet Weight
 Seq Number: 3125069

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.04.2020 22:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.04.2020 22:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.04.2020 22:23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.04.2020 22:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	05.04.2020 22:23	
o-Terphenyl	84-15-1	96	%	70-130	05.04.2020 22:23	



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **EH1-1'**
Lab Sample Id: 660467-006

Matrix: Soil
Date Collected: 05.01.2020 00:00

Date Received: 05.04.2020 10:15
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.11.2020 08:00

Basis: Wet Weight

Seq Number: 3125618

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.11.2020 12:33	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.11.2020 12:33	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.11.2020 12:33	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.11.2020 12:33	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.11.2020 12:33	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.11.2020 12:33	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.11.2020 12:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	83	%	70-130	05.11.2020 12:33	
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.11.2020 12:33	



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **NH4-Surf**

Matrix: Soil

Date Received: 05.04.2020 10:15

Lab Sample Id: 660467-007

Date Collected: 05.01.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 05.04.2020 16:55

Basis: Wet Weight

Seq Number: 3125066

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.4	5.00	mg/kg	05.05.2020 01:26		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.04.2020 14:00

Basis: Wet Weight

Seq Number: 3125069

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.04.2020 22:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.04.2020 22:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.04.2020 22:44	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.04.2020 22:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	05.04.2020 22:44	
o-Terphenyl	84-15-1	97	%	70-130	05.04.2020 22:44	



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **NH4-Surf**

Matrix: Soil

Date Received: 05.04.2020 10:15

Lab Sample Id: 660467-007

Date Collected: 05.01.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.11.2020 08:00

Basis: Wet Weight

Seq Number: 3125618

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.11.2020 12:53	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.11.2020 12:53	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.11.2020 12:53	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.11.2020 12:53	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.11.2020 12:53	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.11.2020 12:53	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.11.2020 12:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	92	%	70-130	05.11.2020 12:53		
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.11.2020 12:53		



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **NH4-1'** Matrix: Soil Date Received: 05.04.2020 10:15
 Lab Sample Id: 660467-008 Date Collected: 05.01.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.04.2020 16:55 Basis: Wet Weight
 Seq Number: 3125066

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.01	5.01	mg/kg	05.05.2020 01:47	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.04.2020 14:00 Basis: Wet Weight
 Seq Number: 3125069

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.04.2020 23:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.04.2020 23:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.04.2020 23:05	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.04.2020 23:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	05.04.2020 23:05	
o-Terphenyl	84-15-1	100	%	70-130	05.04.2020 23:05	



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **NH4-1'**
Lab Sample Id: 660467-008

Matrix: Soil
Date Collected: 05.01.2020 00:00

Date Received: 05.04.2020 10:15
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3125618

Prep Method: SW5035A

% Moisture:

Date Prep: 05.11.2020 08:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.11.2020 13:13	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.11.2020 13:13	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.11.2020 13:13	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.11.2020 13:13	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.11.2020 13:13	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.11.2020 13:13	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.11.2020 13:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.11.2020 13:13		
4-Bromofluorobenzene	460-00-4	82	%	70-130	05.11.2020 13:13		



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SH4-Surf**

Matrix: Soil

Date Received: 05.04.2020 10:15

Lab Sample Id: 660467-009

Date Collected: 05.01.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 05.04.2020 16:55

Basis: Wet Weight

Seq Number: 3125066

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.05	5.05	mg/kg	05.05.2020 01:54	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.04.2020 14:00

Basis: Wet Weight

Seq Number: 3125069

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.04.2020 23:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.04.2020 23:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.04.2020 23:26	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.04.2020 23:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	05.04.2020 23:26	
o-Terphenyl	84-15-1	90	%	70-130	05.04.2020 23:26	



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SH4-Surf**

Matrix: Soil

Date Received: 05.04.2020 10:15

Lab Sample Id: 660467-009

Date Collected: 05.01.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.11.2020 08:00

Basis: Wet Weight

Seq Number: 3125618

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.11.2020 13:33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.11.2020 13:33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.11.2020 13:33	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.11.2020 13:33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.11.2020 13:33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.11.2020 13:33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.11.2020 13:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	05.11.2020 13:33	
4-Bromofluorobenzene	460-00-4	78	%	70-130	05.11.2020 13:33	



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SH4-1'** Matrix: Soil Date Received: 05.04.2020 10:15
 Lab Sample Id: 660467-010 Date Collected: 05.01.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.04.2020 16:55 Basis: Wet Weight
 Seq Number: 3125066

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	05.05.2020 02:01	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.04.2020 14:00 Basis: Wet Weight
 Seq Number: 3125069

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.04.2020 23:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.04.2020 23:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.04.2020 23:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.04.2020 23:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	05.04.2020 23:47	
o-Terphenyl	84-15-1	95	%	70-130	05.04.2020 23:47	



Certificate of Analytical Results 660467

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SH4-1'**
Lab Sample Id: 660467-010

Matrix: Soil
Date Collected: 05.01.2020 00:00

Date Received: 05.04.2020 10:15
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3125618

Prep Method: SW5035A

% Moisture:

Date Prep: 05.11.2020 08:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.11.2020 13:54	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.11.2020 13:54	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.11.2020 13:54	UXF	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.11.2020 13:54	UFX	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.11.2020 13:54	UFX	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.11.2020 13:54	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.11.2020 13:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	85	%	70-130	05.11.2020 13:54	
1,4-Difluorobenzene	540-36-3	105	%	70-130	05.11.2020 13:54	



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

Conoco #1

Analytical Method: Chloride by EPA 300

Seq Number: 3125066

MB Sample Id: 7702663-1-BLK

Matrix: Solid

LCS Sample Id: 7702663-1-BKS

Prep Method: E300P

Date Prep: 05.04.2020

LCSD Sample Id: 7702663-1-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	272	109	273	109	90-110	0	20	mg/kg	05.04.2020 23:09	

Analytical Method: Chloride by EPA 300

Seq Number: 3125066

Parent Sample Id: 660467-001

Matrix: Soil

MS Sample Id: 660467-001 S

Prep Method: E300P

Date Prep: 05.04.2020

MSD Sample Id: 660467-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	332	248	593	105	594	106	90-110	0	20	mg/kg	05.04.2020 23:30	

Analytical Method: Chloride by EPA 300

Seq Number: 3125066

Parent Sample Id: 660467-005

Matrix: Soil

MS Sample Id: 660467-005 S

Prep Method: E300P

Date Prep: 05.04.2020

MSD Sample Id: 660467-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7.01	249	274	107	274	107	90-110	0	20	mg/kg	05.05.2020 01:06	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3125069

MB Sample Id: 7702668-1-BLK

Matrix: Solid

LCS Sample Id: 7702668-1-BKS

Prep Method: SW8015P

Date Prep: 05.04.2020

LCSD Sample Id: 7702668-1-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	929	93	929	93	70-130	0	20	mg/kg	05.04.2020 19:11	
Diesel Range Organics (DRO)	<50.0	1000	1000	100	1020	102	70-130	2	20	mg/kg	05.04.2020 19:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		103		103		70-130	%	05.04.2020 19:11
o-Terphenyl	107		99		104		70-130	%	05.04.2020 19:11

Analytical Method: TPH By SW8015 Mod

Seq Number: 3125069

Matrix: Solid

MB Sample Id: 7702668-1-BLK

Prep Method: SW8015P

Date Prep: 05.04.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.04.2020 18:28	

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



Etech Environmental & Safety Solution, Inc

Conoco #1

Analytical Method: TPH By SW8015 Mod

Seq Number: 3125069

Parent Sample Id: 660467-002

Matrix: Soil

MS Sample Id: 660467-002 S

Prep Method: SW8015P

Date Prep: 05.04.2020

MSD Sample Id: 660467-002 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	1010	101	1010	101	70-130	0	20	mg/kg	05.04.2020 20:16	
Diesel Range Organics (DRO)	<49.9	997	1100	110	1100	110	70-130	0	20	mg/kg	05.04.2020 20:16	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		102		70-130	%	05.04.2020 20:16
o-Terphenyl	98		98		70-130	%	05.04.2020 20:16

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125574

MB Sample Id: 7703079-1-BLK

Matrix: Solid

LCS Sample Id: 7703079-1-BKS

Prep Method: SW5035A

Date Prep: 05.10.2020

LCSD Sample Id: 7703079-1-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	0.0855	86	0.0857	86	70-130	0	35	mg/kg	05.11.2020 00:06	
Toluene	<0.00200	0.100	0.0835	84	0.0832	83	70-130	0	35	mg/kg	05.11.2020 00:06	
Ethylbenzene	<0.00200	0.100	0.0844	84	0.0847	85	70-130	0	35	mg/kg	05.11.2020 00:06	
m,p-Xylenes	<0.00400	0.200	0.162	81	0.162	81	70-130	0	35	mg/kg	05.11.2020 00:06	
o-Xylene	<0.00200	0.100	0.0854	85	0.0844	84	70-130	1	35	mg/kg	05.11.2020 00:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		99		98		70-130	%	05.11.2020 00:06
4-Bromofluorobenzene	92		101		96		70-130	%	05.11.2020 00:06

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125618

MB Sample Id: 7703120-1-BLK

Matrix: Solid

LCS Sample Id: 7703120-1-BKS

Prep Method: SW5035A

Date Prep: 05.11.2020

LCSD Sample Id: 7703120-1-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	0.111	111	0.110	110	70-130	1	35	mg/kg	05.11.2020 09:14	
Toluene	<0.00200	0.100	0.105	105	0.0987	99	70-130	6	35	mg/kg	05.11.2020 09:14	
Ethylbenzene	<0.00200	0.100	0.107	107	0.100	100	70-130	7	35	mg/kg	05.11.2020 09:14	
m,p-Xylenes	<0.00400	0.200	0.206	103	0.189	95	70-130	9	35	mg/kg	05.11.2020 09:14	
o-Xylene	<0.00200	0.100	0.100	100	0.0924	92	70-130	8	35	mg/kg	05.11.2020 09:14	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	87		105		103		70-130	%	05.11.2020 09:14
4-Bromofluorobenzene	55	**	103		104		70-130	%	05.11.2020 09:14

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

Conoco #1

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125574

Parent Sample Id: 660167-062

Matrix: Soil

MS Sample Id: 660167-062 S

Prep Method: SW5035A

Date Prep: 05.10.2020

MSD Sample Id: 660167-062 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0533	53	0.0634	63	70-130	17	35	mg/kg	05.11.2020 00:47	X
Toluene	<0.00201	0.100	0.0347	35	0.0460	46	70-130	28	35	mg/kg	05.11.2020 00:47	X
Ethylbenzene	<0.00201	0.100	0.0271	27	0.0361	36	70-130	28	35	mg/kg	05.11.2020 00:47	X
m,p-Xylenes	<0.00402	0.201	0.0513	26	0.0660	33	70-130	25	35	mg/kg	05.11.2020 00:47	X
o-Xylene	<0.00201	0.100	0.0318	32	0.0402	40	70-130	23	35	mg/kg	05.11.2020 00:47	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		106		70-130	%	05.11.2020 00:47
4-Bromofluorobenzene	102		105		70-130	%	05.11.2020 00:47

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125618

Parent Sample Id: 660467-010

Matrix: Soil

MS Sample Id: 660467-010 S

Prep Method: SW5035A

Date Prep: 05.11.2020

MSD Sample Id: 660467-010 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	0.106	106	0.112	113	70-130	6	35	mg/kg	05.11.2020 09:55	
Toluene	<0.00199	0.0996	0.0761	76	0.105	106	70-130	32	35	mg/kg	05.11.2020 09:55	
Ethylbenzene	<0.00199	0.0996	0.0631	63	0.106	107	70-130	51	35	mg/kg	05.11.2020 09:55	XF
m,p-Xylenes	<0.00398	0.199	0.108	54	0.202	102	70-130	61	35	mg/kg	05.11.2020 09:55	XF
o-Xylene	<0.00199	0.0996	0.0541	54	0.0990	100	70-130	59	35	mg/kg	05.11.2020 09:55	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		106		70-130	%	05.11.2020 09:55
4-Bromofluorobenzene	59	**	108		70-130	%	05.11.2020 09:55

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

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) 988-3189, 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:

104864107

www.xenco.com Page of

Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
 State of Project: ☐

Reporting Level: ☐ Level I ☐ PST/US ☐ TRR ☐ Level II ☐
 Deliverables: ☐ EDD ☐ ADAPT ☐ Other: ☐

ANALYSIS REQUEST

Preservative Codes

HNO₃: HN
 H₂SO₄: H2
 HCl: HL
 None: NO
 NaOH: Na
 MeOH: Me
 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	Preservative Codes	Sample Comments
SP4 - Sur		5/1/20		Surf							
SP4 - 4R		5/1/20		4							
SP5 - Sur		5/1/20		Sur							
SP5 - 4R		5/1/20		4							
EH1 - Sur		5/1/20		Sur							
EH1 - 1		5/1/20		1							
NH4 - Sur		5/1/20		Sur							
NH4 - 1		5/1/20		1							
SH4 - Sur		5/1/20		Sur							
SH4 - 1		5/1/20		1							

Total 200.7 / 6010 200.8 / 6020:

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

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

Notes: 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.

1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Judee Siler

Teresa Swadlow

5/1/20

Teresa Swadlow

5/1/20

5/14/20

TX-US LBB
MAFKI
HLD
PRIORITY OVERNIGHT
SATURDAY HOLD

41 MAFN

TRK# 4705 2523 5288

0201

FedEx Express

551CA/763R/184C

SHIP DATE: 01MAY20
ACTWGT: 12.00 LB MAN
CRD: 0908328/CAFE3211
DIMS: 13x13x11 IN
BILL RECIPIENT

ORIGIN ID: HOBA (5/5) 592-1500
MAIL SERVICES ETC, LLC
4008 N GRIMES
HOBBBS, NM 88240
UNITED STATES US

TO XENCO LABORATORIES HOLD FOR PICK UP
FEDEX OFFICE PRINT & SHIP CENTER
FEDEX OFFICE PRINT & SHIP CENTER
200 W INTERSTATE 20
MIDLAND TX 79701

REF: (432) 563-1800
DEPT: INV: PO:

551CA/763R/184C

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 05.04.2020 10.15.00 AM

Work Order #: 660467

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

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

BTEX was in bulk container

* 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: 05.04.2020

Checklist reviewed by:



Jessica Kramer

Date: 05.04.2020



Certificate of Analysis Summary 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #1

Project Id: 12384
Contact: PM
Project Location: Rural Chavez

Date Received in Lab: Mon 06.15.2020 09:35
Report Date: 06.22.2020 16:05
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	664364-001	664364-002	664364-003	664364-004	664364-005	664364-006
	<i>Field Id:</i>	SW1	SW2	SW3	SW4	SW5	EW1
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	06.18.2020 17:00	06.18.2020 17:00	06.18.2020 17:00	06.18.2020 17:00	06.18.2020 17:00	06.18.2020 17:00
	<i>Analyzed:</i>	06.19.2020 12:34	06.19.2020 12:55	06.19.2020 13:15	06.19.2020 13:36	06.19.2020 13:56	06.19.2020 14:16
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00403 0.00403	<0.00402 0.00402	<0.00402 0.00402	<0.00404 0.00404	<0.00397 0.00397	<0.00400 0.00400
o-Xylene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	06.16.2020 10:00	06.16.2020 10:00	06.16.2020 10:00	06.16.2020 10:00	06.16.2020 10:00	06.16.2020 10:00
	<i>Analyzed:</i>	06.16.2020 16:49	06.16.2020 16:55	06.16.2020 17:02	06.16.2020 17:08	06.16.2020 17:14	06.16.2020 17:21
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<4.96 4.96	8.21 4.97	<5.00 5.00	<4.99 4.99	16.3 4.96	7.27 5.01
TPH By SW8015 Mod	<i>Extracted:</i>	06.16.2020 11:00	06.16.2020 11:00	06.16.2020 11:00	06.16.2020 11:00	06.16.2020 11:00	06.16.2020 11:00
	<i>Analyzed:</i>	06.16.2020 12:58	06.16.2020 14:03	06.16.2020 14:24	06.16.2020 14:45	06.16.2020 15:07	06.16.2020 15:29
	<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	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Total TPH		<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #1

Project Id: 12384
Contact: PM
Project Location: Rural Chavez

Date Received in Lab: Mon 06.15.2020 09:35
Report Date: 06.22.2020 16:05
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	664364-007	664364-008	664364-009	664364-010	664364-011	664364-012
	<i>Field Id:</i>	EW2	EW3	NW1	NW2	NW3 @4'	FL1 @ 4'
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	06.18.2020 17:00	06.18.2020 17:00	06.18.2020 15:00	06.18.2020 15:00	06.18.2020 15:00	06.18.2020 15:00
	<i>Analyzed:</i>	06.19.2020 14:37	06.19.2020 14:57	06.19.2020 06:27	06.19.2020 06:48	06.19.2020 07:08	06.19.2020 07:29
	<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	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201
m,p-Xylenes		<0.00401 0.00401	<0.00404 0.00404	<0.00399 0.00399	<0.00401 0.00401	<0.00402 0.00402	<0.00402 0.00402
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.000998 0.000998	<0.00100 0.00100	<0.00101 0.00101	<0.00101 0.00101
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202	<0.000998 0.000998	<0.00100 0.00100	<0.00101 0.00101	<0.00101 0.00101
Total BTEX		<0.00200 0.00200	<0.00202 0.00202	<0.000998 0.000998	<0.00100 0.00100	<0.00101 0.00101	<0.00101 0.00101
Chloride by EPA 300	<i>Extracted:</i>	06.16.2020 10:00	06.16.2020 10:00	06.16.2020 10:00	06.16.2020 10:00	06.16.2020 10:00	06.16.2020 10:00
	<i>Analyzed:</i>	06.16.2020 17:27	06.16.2020 11:46	06.16.2020 12:06	06.16.2020 12:12	06.16.2020 12:18	06.16.2020 14:19
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		14.7 5.02	15.6 4.99	<5.02 5.02	<4.97 4.97	<4.95 4.95	3680 25.0
TPH By SW8015 Mod	<i>Extracted:</i>	06.16.2020 11:00	06.16.2020 11:00	06.16.2020 11:00	06.16.2020 11:00	06.16.2020 11:00	06.16.2020 11:00
	<i>Analyzed:</i>	06.16.2020 15:50	06.16.2020 16:12	06.16.2020 16:33	06.16.2020 16:55	06.16.2020 17:39	06.16.2020 18:00
	<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)		<49.8 49.8	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Diesel Range Organics (DRO)		<49.8 49.8	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Total TPH		<49.8 49.8	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #1

Project Id: 12384
Contact: PM
Project Location: Rural Chavez

Date Received in Lab: Mon 06.15.2020 09:35
Report Date: 06.22.2020 16:05
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	664364-013	664364-014	664364-015	664364-016	664364-017	664364-018
	<i>Field Id:</i>	FL2 @ 4'	FL3 @ 4'	FL4 @ 4'	FL5 @ 4'	FL6 @ 4'	FL7 @ 4'
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	06.18.2020 15:00	06.19.2020 08:00	06.19.2020 08:00	06.19.2020 08:00	06.19.2020 08:00	06.19.2020 08:00
	<i>Analyzed:</i>	06.19.2020 07:49	06.19.2020 13:29	06.19.2020 13:49	06.19.2020 14:10	06.19.2020 14:30	06.19.2020 15:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398	<0.00397 0.00397	<0.00397 0.00397	<0.00399 0.00399	<0.00400 0.00400	<0.00398 0.00398
o-Xylene		<0.000996 0.000996	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.000996 0.000996	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.000996 0.000996	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	06.16.2020 10:00	06.16.2020 10:00	06.16.2020 10:00	06.16.2020 10:00	06.16.2020 11:20	06.16.2020 11:20
	<i>Analyzed:</i>	06.16.2020 14:25	06.16.2020 14:31	06.16.2020 14:38	06.16.2020 13:15	06.16.2020 12:19	06.16.2020 11:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		8320 49.8	11000 100	6550 49.9	681 X 4.97	7960 50.4	30.8 4.99
TPH By SW8015 Mod	<i>Extracted:</i>	06.16.2020 11:00	06.16.2020 11:00	06.16.2020 11:00	06.16.2020 11:00	06.16.2020 11:00	06.16.2020 11:00
	<i>Analyzed:</i>	06.16.2020 18:22	06.16.2020 18:43	06.16.2020 19:05	06.16.2020 19:26	06.16.2020 19:48	06.16.2020 20:09
	<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	145 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	145 50.0	<50.0 50.0

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Jessica Kramer
Project Manager



Certificate of Analysis Summary 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #1

Project Id: 12384
Contact: PM
Project Location: Rural Chavez

Date Received in Lab: Mon 06.15.2020 09:35
Report Date: 06.22.2020 16:05
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	664364-019	664364-020	664364-021	664364-022	664364-023	
	<i>Field Id:</i>	FL8 @ 4'	FL9 @ 4'	FL10 @ 4'	FL11 @ 4'	FL12 @ 4'	
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00	06.10.2020 00:00	
BTEX by EPA 8021B	<i>Extracted:</i>	06.19.2020 08:00	06.19.2020 08:00	06.19.2020 08:00	06.19.2020 08:00	06.19.2020 08:00	
	<i>Analyzed:</i>	06.19.2020 16:15	06.19.2020 16:35	06.19.2020 16:56	06.19.2020 17:16	06.19.2020 17:37	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	
m,p-Xylenes		<0.00398 0.00398	<0.00401 0.00401	<0.00398 0.00398	<0.00402 0.00402	<0.00398 0.00398	
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	
Chloride by EPA 300	<i>Extracted:</i>	06.16.2020 11:20	06.16.2020 11:20	06.16.2020 11:20	06.16.2020 11:20	06.16.2020 11:20	
	<i>Analyzed:</i>	06.16.2020 12:24	06.16.2020 12:50	06.16.2020 12:55	06.16.2020 13:00	06.16.2020 13:05	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		679 5.00	4170 24.9	4270 24.9	2260 25.2	6050 50.1	
TPH By SW8015 Mod	<i>Extracted:</i>	06.16.2020 11:00	06.16.2020 11:00	06.16.2020 12:00	06.16.2020 12:00	06.16.2020 12:00	
	<i>Analyzed:</i>	06.16.2020 20:30	06.16.2020 20:52	06.17.2020 02:12	06.17.2020 03:09	06.17.2020 03:28	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	
Total TPH		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	

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Jessica Kramer
Project Manager



Analytical Report 664364

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Conoco #1

12384

06.22.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-34), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.22.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: XENCO Report No(s): **664364**

Conoco #1

Project Address: Rural Chavez

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 XENCO Report Number(s) 664364. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 664364 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'. The signature is written in a cursive, flowing style.

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 664364****Etech Environmental & Safety Solution, Inc, Midland, TX**

Conoco #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW1	S	06.10.2020 00:00		664364-001
SW2	S	06.10.2020 00:00		664364-002
SW3	S	06.10.2020 00:00		664364-003
SW4	S	06.10.2020 00:00		664364-004
SW5	S	06.10.2020 00:00		664364-005
EW1	S	06.10.2020 00:00		664364-006
EW2	S	06.10.2020 00:00		664364-007
EW3	S	06.10.2020 00:00		664364-008
NW1	S	06.10.2020 00:00		664364-009
NW2	S	06.10.2020 00:00		664364-010
NW3 @ 4'	S	06.10.2020 00:00		664364-011
FL1 @ 4'	S	06.10.2020 00:00		664364-012
FL2 @ 4'	S	06.10.2020 00:00		664364-013
FL3 @ 4'	S	06.10.2020 00:00		664364-014
FL4 @ 4'	S	06.10.2020 00:00		664364-015
FL5 @ 4'	S	06.10.2020 00:00		664364-016
FL6 @ 4'	S	06.10.2020 00:00		664364-017
FL7 @ 4'	S	06.10.2020 00:00		664364-018
FL8 @ 4'	S	06.10.2020 00:00		664364-019
FL9 @ 4'	S	06.10.2020 00:00		664364-020
FL10 @ 4'	S	06.10.2020 00:00		664364-021
FL11 @ 4'	S	06.10.2020 00:00		664364-022
FL12 @ 4'	S	06.10.2020 00:00		664364-023

**CASE NARRATIVE****Client Name: Etech Environmental & Safety Solution, Inc****Project Name: Conoco #1**

Project ID: 12384
Work Order Number(s): 664364

Report Date: 06.22.2020
Date Received: 06.15.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3129167 Chloride by EPA 300

Lab Sample ID 664364-016 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 664364-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3129215 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 664364-013.

CCVs high indicating possible high bias, however all samples are nondetect.

Batch: LBA-3129472 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 664364-007.



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW1**
Lab Sample Id: 664364-001

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3129167

Prep Method: E300P

% Moisture:

Date Prep: 06.16.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	06.16.2020 16:49	U	1

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3129215

Prep Method: SW8015P

% Moisture:

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.16.2020 12:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.16.2020 12:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.16.2020 12:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.16.2020 12:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	06.16.2020 12:58	
o-Terphenyl	84-15-1	99	%	70-130	06.16.2020 12:58	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW1**
Lab Sample Id: 664364-001

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 17:00

Basis: Wet Weight

Seq Number: 3129472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.19.2020 12:34	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.19.2020 12:34	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.19.2020 12:34	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	06.19.2020 12:34	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.19.2020 12:34	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.19.2020 12:34	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.19.2020 12:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	06.19.2020 12:34	
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.19.2020 12:34	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW2**
Lab Sample Id: 664364-002

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.16.2020 10:00

Basis: Wet Weight

Seq Number: 3129167

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.21	4.97	mg/kg	06.16.2020 16:55		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.16.2020 14:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.16.2020 14:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.16.2020 14:03	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.16.2020 14:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	06.16.2020 14:03	
o-Terphenyl	84-15-1	106	%	70-130	06.16.2020 14:03	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW2**
Lab Sample Id: 664364-002

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 17:00

Basis: Wet Weight

Seq Number: 3129472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.19.2020 12:55	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.19.2020 12:55	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.19.2020 12:55	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.19.2020 12:55	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.19.2020 12:55	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.19.2020 12:55	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.19.2020 12:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	06.19.2020 12:55	
4-Bromofluorobenzene	460-00-4	103	%	70-130	06.19.2020 12:55	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW3**
Lab Sample Id: 664364-003

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.16.2020 10:00

Basis: Wet Weight

Seq Number: 3129167

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	06.16.2020 17:02	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.16.2020 14:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.16.2020 14:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.16.2020 14:24	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.16.2020 14:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	06.16.2020 14:24	
o-Terphenyl	84-15-1	99	%	70-130	06.16.2020 14:24	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW3**
Lab Sample Id: 664364-003

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 17:00

Basis: Wet Weight

Seq Number: 3129472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.19.2020 13:15	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.19.2020 13:15	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.19.2020 13:15	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.19.2020 13:15	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.19.2020 13:15	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.19.2020 13:15	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.19.2020 13:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	91	%	70-130	06.19.2020 13:15		
4-Bromofluorobenzene	460-00-4	127	%	70-130	06.19.2020 13:15		



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW4**
Lab Sample Id: 664364-004

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.16.2020 10:00

Basis: Wet Weight

Seq Number: 3129167

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	06.16.2020 17:08	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.16.2020 14:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.16.2020 14:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.16.2020 14:45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.16.2020 14:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	06.16.2020 14:45	
o-Terphenyl	84-15-1	107	%	70-130	06.16.2020 14:45	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW4**
Lab Sample Id: 664364-004

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 17:00

Basis: Wet Weight

Seq Number: 3129472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.19.2020 13:36	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.19.2020 13:36	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.19.2020 13:36	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	06.19.2020 13:36	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.19.2020 13:36	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.19.2020 13:36	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.19.2020 13:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	129	%	70-130	06.19.2020 13:36		
1,4-Difluorobenzene	540-36-3	91	%	70-130	06.19.2020 13:36		



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW5** Matrix: **Soil** Date Received: 06.15.2020 09:35
 Lab Sample Id: 664364-005 Date Collected: 06.10.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 06.16.2020 10:00 Basis: Wet Weight
 Seq Number: 3129167

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.3	4.96	mg/kg	06.16.2020 17:14		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.16.2020 11:00 Basis: Wet Weight
 Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.16.2020 15:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.16.2020 15:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.16.2020 15:07	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.16.2020 15:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	06.16.2020 15:07	
o-Terphenyl	84-15-1	99	%	70-130	06.16.2020 15:07	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: SW5
Lab Sample Id: 664364-005

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 17:00

Basis: Wet Weight

Seq Number: 3129472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.19.2020 13:56	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.19.2020 13:56	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.19.2020 13:56	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.19.2020 13:56	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.19.2020 13:56	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.19.2020 13:56	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.19.2020 13:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	06.19.2020 13:56	
4-Bromofluorobenzene	460-00-4	128	%	70-130	06.19.2020 13:56	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **EW1**
Lab Sample Id: 664364-006

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3129167

Prep Method: E300P

% Moisture:

Date Prep: 06.16.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.27	5.01	mg/kg	06.16.2020 17:21		1

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3129215

Prep Method: SW8015P

% Moisture:

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.16.2020 15:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.16.2020 15:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.16.2020 15:29	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.16.2020 15:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	06.16.2020 15:29	
o-Terphenyl	84-15-1	106	%	70-130	06.16.2020 15:29	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **EW1**
Lab Sample Id: 664364-006

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 17:00

Basis: Wet Weight

Seq Number: 3129472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.19.2020 14:16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.19.2020 14:16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.19.2020 14:16	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.19.2020 14:16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.19.2020 14:16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.19.2020 14:16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.19.2020 14:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	06.19.2020 14:16		
1,4-Difluorobenzene	540-36-3	98	%	70-130	06.19.2020 14:16		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **EW2**
Lab Sample Id: 664364-007

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3129167

Prep Method: E300P

% Moisture:

Date Prep: 06.16.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.7	5.02	mg/kg	06.16.2020 17:27		1

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3129215

Prep Method: SW8015P

% Moisture:

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.16.2020 15:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.16.2020 15:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.16.2020 15:50	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.16.2020 15:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	06.16.2020 15:50	
o-Terphenyl	84-15-1	103	%	70-130	06.16.2020 15:50	



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Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **EW2**
Lab Sample Id: 664364-007

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 17:00

Basis: Wet Weight

Seq Number: 3129472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.19.2020 14:37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.19.2020 14:37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.19.2020 14:37	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.19.2020 14:37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.19.2020 14:37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.19.2020 14:37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.19.2020 14:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	132	%	70-130	06.19.2020 14:37	**	
1,4-Difluorobenzene	540-36-3	92	%	70-130	06.19.2020 14:37		



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Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **EW3**
Lab Sample Id: 664364-008

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3129167

Prep Method: E300P

% Moisture:

Date Prep: 06.16.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.6	4.99	mg/kg	06.16.2020 11:46		1

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3129215

Prep Method: SW8015P

% Moisture:

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.16.2020 16:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.16.2020 16:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.16.2020 16:12	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.16.2020 16:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	06.16.2020 16:12	
o-Terphenyl	84-15-1	110	%	70-130	06.16.2020 16:12	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **EW3**
Lab Sample Id: 664364-008

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 17:00

Basis: Wet Weight

Seq Number: 3129472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.19.2020 14:57	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.19.2020 14:57	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.19.2020 14:57	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	06.19.2020 14:57	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.19.2020 14:57	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.19.2020 14:57	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.19.2020 14:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	06.19.2020 14:57		
1,4-Difluorobenzene	540-36-3	101	%	70-130	06.19.2020 14:57		



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **NW1** Matrix: Soil Date Received: 06.15.2020 09:35
 Lab Sample Id: 664364-009 Date Collected: 06.10.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 06.16.2020 10:00 Basis: Wet Weight
 Seq Number: 3129167

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	06.16.2020 12:06	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.16.2020 11:00 Basis: Wet Weight
 Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.16.2020 16:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.16.2020 16:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.16.2020 16:33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.16.2020 16:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	06.16.2020 16:33	
o-Terphenyl	84-15-1	119	%	70-130	06.16.2020 16:33	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **NW1**
Lab Sample Id: 664364-009

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 15:00

Basis: Wet Weight

Seq Number: 3129395

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.19.2020 06:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.19.2020 06:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.19.2020 06:27	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.19.2020 06:27	U	1
o-Xylene	95-47-6	<0.000998	0.000998	mg/kg	06.19.2020 06:27	U	1
Total Xylenes	1330-20-7	<0.000998	0.000998	mg/kg	06.19.2020 06:27	U	1
Total BTEX		<0.000998	0.000998	mg/kg	06.19.2020 06:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	06.19.2020 06:27	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: NW2
Lab Sample Id: 664364-010

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3129167

Prep Method: E300P

% Moisture:

Date Prep: 06.16.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	06.16.2020 12:12	U	1

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3129215

Prep Method: SW8015P

% Moisture:

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.16.2020 16:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.16.2020 16:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.16.2020 16:55	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.16.2020 16:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	06.16.2020 16:55	
o-Terphenyl	84-15-1	120	%	70-130	06.16.2020 16:55	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: NW2
Lab Sample Id: 664364-010

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 15:00

Basis: Wet Weight

Seq Number: 3129395

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.19.2020 06:48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.19.2020 06:48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.19.2020 06:48	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.19.2020 06:48	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	06.19.2020 06:48	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	06.19.2020 06:48	U	1
Total BTEX		<0.00100	0.00100	mg/kg	06.19.2020 06:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	06.19.2020 06:48	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: NW3 @4'

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-011

Date Collected: 06.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.16.2020 10:00

Basis: Wet Weight

Seq Number: 3129167

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	06.16.2020 12:18	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.16.2020 17:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.16.2020 17:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.16.2020 17:39	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.16.2020 17:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	06.16.2020 17:39	
o-Terphenyl	84-15-1	107	%	70-130	06.16.2020 17:39	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: NW3 @4'

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-011

Date Collected: 06.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 15:00

Basis: Wet Weight

Seq Number: 3129395

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.19.2020 07:08	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.19.2020 07:08	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.19.2020 07:08	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.19.2020 07:08	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	06.19.2020 07:08	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	06.19.2020 07:08	U	1
Total BTEX		<0.00101	0.00101	mg/kg	06.19.2020 07:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	06.19.2020 07:08	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL1 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-012

Date Collected: 06.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.16.2020 10:00

Basis: Wet Weight

Seq Number: 3129167

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3680	25.0	mg/kg	06.16.2020 14:19		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.16.2020 18:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.16.2020 18:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.16.2020 18:00	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.16.2020 18:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	06.16.2020 18:00	
o-Terphenyl	84-15-1	106	%	70-130	06.16.2020 18:00	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: FL1 @ 4'

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-012

Date Collected: 06.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 15:00

Basis: Wet Weight

Seq Number: 3129395

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.19.2020 07:29	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.19.2020 07:29	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.19.2020 07:29	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.19.2020 07:29	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	06.19.2020 07:29	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	06.19.2020 07:29	U	1
Total BTEX		<0.00101	0.00101	mg/kg	06.19.2020 07:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	06.19.2020 07:29	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: FL2 @ 4'

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-013

Date Collected: 06.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.16.2020 10:00

Basis: Wet Weight

Seq Number: 3129167

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8320	49.8	mg/kg	06.16.2020 14:25		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.16.2020 18:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.16.2020 18:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.16.2020 18:22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.16.2020 18:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-130	06.16.2020 18:22	
o-Terphenyl	84-15-1	136	%	70-130	06.16.2020 18:22	**



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: FL2 @ 4'

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-013

Date Collected: 06.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 15:00

Basis: Wet Weight

Seq Number: 3129395

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.19.2020 07:49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.19.2020 07:49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.19.2020 07:49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.19.2020 07:49	U	1
o-Xylene	95-47-6	<0.000996	0.000996	mg/kg	06.19.2020 07:49	U	1
Total Xylenes	1330-20-7	<0.000996	0.000996	mg/kg	06.19.2020 07:49	U	1
Total BTEX		<0.000996	0.000996	mg/kg	06.19.2020 07:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	06.19.2020 07:49	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: FL3 @ 4'

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-014

Date Collected: 06.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.16.2020 10:00

Basis: Wet Weight

Seq Number: 3129167

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11000	100	mg/kg	06.16.2020 14:31		20

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.16.2020 18:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.16.2020 18:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.16.2020 18:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.16.2020 18:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	06.16.2020 18:43	
o-Terphenyl	84-15-1	114	%	70-130	06.16.2020 18:43	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: FL3 @ 4'
Lab Sample Id: 664364-014

Matrix: Soil
Date Collected: 06.10.2020 00:00

Date Received: 06.15.2020 09:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 08:00

Basis: Wet Weight

Seq Number: 3129598

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.19.2020 13:29	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.19.2020 13:29	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.19.2020 13:29	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.19.2020 13:29	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.19.2020 13:29	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.19.2020 13:29	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.19.2020 13:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	06.19.2020 13:29	
4-Bromofluorobenzene	460-00-4	105	%	70-130	06.19.2020 13:29	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL4 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-015

Date Collected: 06.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.16.2020 10:00

Basis: Wet Weight

Seq Number: 3129167

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6550	49.9	mg/kg	06.16.2020 14:38		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.16.2020 19:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.16.2020 19:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.16.2020 19:05	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.16.2020 19:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	06.16.2020 19:05	
o-Terphenyl	84-15-1	109	%	70-130	06.16.2020 19:05	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL4 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-015

Date Collected: 06.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 08:00

Basis: Wet Weight

Seq Number: 3129598

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.19.2020 13:49	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.19.2020 13:49	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.19.2020 13:49	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.19.2020 13:49	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.19.2020 13:49	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.19.2020 13:49	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.19.2020 13:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	06.19.2020 13:49	
4-Bromofluorobenzene	460-00-4	109	%	70-130	06.19.2020 13:49	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: FL5 @ 4'

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-016

Date Collected: 06.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.16.2020 10:00

Basis: Wet Weight

Seq Number: 3129167

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	681	4.97	mg/kg	06.16.2020 13:15	X	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.16.2020 19:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.16.2020 19:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.16.2020 19:26	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.16.2020 19:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	06.16.2020 19:26	
o-Terphenyl	84-15-1	112	%	70-130	06.16.2020 19:26	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: FL5 @ 4'

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-016

Date Collected: 06.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 08:00

Basis: Wet Weight

Seq Number: 3129598

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.19.2020 14:10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.19.2020 14:10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.19.2020 14:10	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.19.2020 14:10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.19.2020 14:10	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.19.2020 14:10	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.19.2020 14:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	06.19.2020 14:10	
1,4-Difluorobenzene	540-36-3	89	%	70-130	06.19.2020 14:10	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL6 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-017

Date Collected: 06.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.16.2020 11:20

Basis: Wet Weight

Seq Number: 3129094

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7960	50.4	mg/kg	06.16.2020 12:19		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.16.2020 19:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	145	50.0	mg/kg	06.16.2020 19:48		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.16.2020 19:48	U	1
Total TPH	PHC635	145	50.0	mg/kg	06.16.2020 19:48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	06.16.2020 19:48	
o-Terphenyl	84-15-1	110	%	70-130	06.16.2020 19:48	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL6 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-017

Date Collected: 06.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 08:00

Basis: Wet Weight

Seq Number: 3129598

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.19.2020 14:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.19.2020 14:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.19.2020 14:30	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.19.2020 14:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.19.2020 14:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.19.2020 14:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.19.2020 14:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	06.19.2020 14:30	
1,4-Difluorobenzene	540-36-3	101	%	70-130	06.19.2020 14:30	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: FL7 @ 4'

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-018

Date Collected: 06.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.16.2020 11:20

Basis: Wet Weight

Seq Number: 3129094

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.8	4.99	mg/kg	06.16.2020 11:54		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.16.2020 20:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.16.2020 20:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.16.2020 20:09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.16.2020 20:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	06.16.2020 20:09	
o-Terphenyl	84-15-1	111	%	70-130	06.16.2020 20:09	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: FL7 @ 4'

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-018

Date Collected: 06.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 08:00

Basis: Wet Weight

Seq Number: 3129598

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.19.2020 15:54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.19.2020 15:54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.19.2020 15:54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.19.2020 15:54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.19.2020 15:54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.19.2020 15:54	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.19.2020 15:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	06.19.2020 15:54		
4-Bromofluorobenzene	460-00-4	105	%	70-130	06.19.2020 15:54		



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL8 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-019

Date Collected: 06.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.16.2020 11:20

Basis: Wet Weight

Seq Number: 3129094

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	679	5.00	mg/kg	06.16.2020 12:24		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.16.2020 20:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.16.2020 20:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.16.2020 20:30	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.16.2020 20:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	06.16.2020 20:30	
o-Terphenyl	84-15-1	110	%	70-130	06.16.2020 20:30	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL8 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-019

Date Collected: 06.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 08:00

Basis: Wet Weight

Seq Number: 3129598

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.19.2020 16:15	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.19.2020 16:15	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.19.2020 16:15	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.19.2020 16:15	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.19.2020 16:15	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.19.2020 16:15	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.19.2020 16:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	06.19.2020 16:15		
4-Bromofluorobenzene	460-00-4	106	%	70-130	06.19.2020 16:15		



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL9 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-020

Date Collected: 06.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.16.2020 11:20

Basis: Wet Weight

Seq Number: 3129094

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4170	24.9	mg/kg	06.16.2020 12:50		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 11:00

Basis: Wet Weight

Seq Number: 3129215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.16.2020 20:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.16.2020 20:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.16.2020 20:52	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.16.2020 20:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	06.16.2020 20:52	
o-Terphenyl	84-15-1	107	%	70-130	06.16.2020 20:52	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL9 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-020

Date Collected: 06.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 08:00

Basis: Wet Weight

Seq Number: 3129598

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.19.2020 16:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.19.2020 16:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.19.2020 16:35	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.19.2020 16:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.19.2020 16:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.19.2020 16:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.19.2020 16:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	06.19.2020 16:35		
4-Bromofluorobenzene	460-00-4	106	%	70-130	06.19.2020 16:35		



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL10 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-021

Date Collected: 06.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.16.2020 11:20

Basis: Wet Weight

Seq Number: 3129094

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4270	24.9	mg/kg	06.16.2020 12:55		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 12:00

Basis: Wet Weight

Seq Number: 3129214

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.17.2020 02:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.17.2020 02:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.17.2020 02:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.17.2020 02:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	06.17.2020 02:12	
o-Terphenyl	84-15-1	117	%	70-130	06.17.2020 02:12	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL10 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-021

Date Collected: 06.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 08:00

Basis: Wet Weight

Seq Number: 3129598

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.19.2020 16:56	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.19.2020 16:56	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.19.2020 16:56	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.19.2020 16:56	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.19.2020 16:56	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.19.2020 16:56	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.19.2020 16:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	06.19.2020 16:56	
1,4-Difluorobenzene	540-36-3	103	%	70-130	06.19.2020 16:56	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL11 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-022

Date Collected: 06.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.16.2020 11:20

Basis: Wet Weight

Seq Number: 3129094

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2260	25.2	mg/kg	06.16.2020 13:00		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 12:00

Basis: Wet Weight

Seq Number: 3129214

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.17.2020 03:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.17.2020 03:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.17.2020 03:09	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.17.2020 03:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	06.17.2020 03:09	
o-Terphenyl	84-15-1	117	%	70-130	06.17.2020 03:09	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL11 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-022

Date Collected: 06.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 08:00

Basis: Wet Weight

Seq Number: 3129598

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.19.2020 17:16	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.19.2020 17:16	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.19.2020 17:16	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.19.2020 17:16	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.19.2020 17:16	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.19.2020 17:16	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.19.2020 17:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	06.19.2020 17:16	
4-Bromofluorobenzene	460-00-4	104	%	70-130	06.19.2020 17:16	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL12 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-023

Date Collected: 06.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.16.2020 11:20

Basis: Wet Weight

Seq Number: 3129094

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6050	50.1	mg/kg	06.16.2020 13:05		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.16.2020 12:00

Basis: Wet Weight

Seq Number: 3129214

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.17.2020 03:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.17.2020 03:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.17.2020 03:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.17.2020 03:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	06.17.2020 03:28	
o-Terphenyl	84-15-1	120	%	70-130	06.17.2020 03:28	



Certificate of Analytical Results 664364

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL12 @ 4'**

Matrix: Soil

Date Received: 06.15.2020 09:35

Lab Sample Id: 664364-023

Date Collected: 06.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 08:00

Basis: Wet Weight

Seq Number: 3129598

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.19.2020 17:37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.19.2020 17:37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.19.2020 17:37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.19.2020 17:37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.19.2020 17:37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.19.2020 17:37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.19.2020 17:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	06.19.2020 17:37		
1,4-Difluorobenzene	540-36-3	102	%	70-130	06.19.2020 17:37		



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

Conoco #1

Analytical Method: Chloride by EPA 300

Seq Number: 3129167

MB Sample Id: 7705506-1-BLK

Matrix: Solid

LCS Sample Id: 7705506-1-BKS

Prep Method: E300P

Date Prep: 06.16.2020

LCSD Sample Id: 7705506-1-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	259	104	259	104	90-110	0	20	mg/kg	06.16.2020 11:34	

Analytical Method: Chloride by EPA 300

Seq Number: 3129094

MB Sample Id: 7705512-1-BLK

Matrix: Solid

LCS Sample Id: 7705512-1-BKS

Prep Method: E300P

Date Prep: 06.16.2020

LCSD Sample Id: 7705512-1-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	236	94	230	92	90-110	3	20	mg/kg	06.16.2020 11:44	

Analytical Method: Chloride by EPA 300

Seq Number: 3129167

Parent Sample Id: 664364-008

Matrix: Soil

MS Sample Id: 664364-008 S

Prep Method: E300P

Date Prep: 06.16.2020

MSD Sample Id: 664364-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	15.6	250	273	103	274	103	90-110	0	20	mg/kg	06.16.2020 11:53	

Analytical Method: Chloride by EPA 300

Seq Number: 3129167

Parent Sample Id: 664364-016

Matrix: Soil

MS Sample Id: 664364-016 S

Prep Method: E300P

Date Prep: 06.16.2020

MSD Sample Id: 664364-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	681	249	905	90	902	89	90-110	0	20	mg/kg	06.16.2020 13:22	X

Analytical Method: Chloride by EPA 300

Seq Number: 3129094

Parent Sample Id: 664364-018

Matrix: Soil

MS Sample Id: 664364-018 S

Prep Method: E300P

Date Prep: 06.16.2020

MSD Sample Id: 664364-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	30.8	250	273	97	275	98	90-110	1	20	mg/kg	06.16.2020 12:39	

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
Conoco #1

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129215

MB Sample Id: 7705539-1-BLK

Matrix: Solid

LCS Sample Id: 7705539-1-BKS

Prep Method: SW8015P

Date Prep: 06.16.2020

LCSD Sample Id: 7705539-1-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	857	86	863	86	70-130	1	20	mg/kg	06.16.2020 12:15	
Diesel Range Organics (DRO)	<50.0	1000	935	94	869	87	70-130	7	20	mg/kg	06.16.2020 12:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	91		98		91		70-130	%	06.16.2020 12:15
o-Terphenyl	100		88		82		70-130	%	06.16.2020 12:15

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129214

MB Sample Id: 7705538-1-BLK

Matrix: Solid

LCS Sample Id: 7705538-1-BKS

Prep Method: SW8015P

Date Prep: 06.16.2020

LCSD Sample Id: 7705538-1-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	1050	105	1050	105	70-130	0	20	mg/kg	06.17.2020 01:35	
Diesel Range Organics (DRO)	<50.0	1000	1050	105	1050	105	70-130	0	20	mg/kg	06.17.2020 01:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	120		129		129		70-130	%	06.17.2020 01:35
o-Terphenyl	126		122		126		70-130	%	06.17.2020 01:35

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129215

Matrix: Solid

MB Sample Id: 7705539-1-BLK

Prep Method: SW8015P

Date Prep: 06.16.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	06.16.2020 11:54	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129214

Matrix: Solid

MB Sample Id: 7705538-1-BLK

Prep Method: SW8015P

Date Prep: 06.16.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	06.17.2020 01:16	

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

Conoco #1

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129215

Parent Sample Id: 664364-001

Matrix: Soil

MS Sample Id: 664364-001 S

Prep Method: SW8015P

Date Prep: 06.16.2020

MSD Sample Id: 664364-001 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	998	952	95	970	97	70-130	2	20	mg/kg	06.16.2020 13:20	
Diesel Range Organics (DRO)	<49.9	998	984	99	995	100	70-130	1	20	mg/kg	06.16.2020 13:20	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		100		70-130	%	06.16.2020 13:20
o-Terphenyl	88		87		70-130	%	06.16.2020 13:20

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129214

Parent Sample Id: 664364-021

Matrix: Soil

MS Sample Id: 664364-021 S

Prep Method: SW8015P

Date Prep: 06.16.2020

MSD Sample Id: 664364-021 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	1080	108	1100	110	70-130	2	20	mg/kg	06.17.2020 02:31	
Diesel Range Organics (DRO)	<49.9	997	1100	110	1110	111	70-130	1	20	mg/kg	06.17.2020 02:31	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		130		70-130	%	06.17.2020 02:31
o-Terphenyl	125		124		70-130	%	06.17.2020 02:31

Analytical Method: BTEX by EPA 8021B

Seq Number: 3129395

MB Sample Id: 7705768-1-BLK

Matrix: Solid

LCS Sample Id: 7705768-1-BKS

Prep Method: SW5035A

Date Prep: 06.18.2020

LCSD Sample Id: 7705768-1-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	0.100	100	0.103	103	70-130	3	35	mg/kg	06.18.2020 22:15	
Toluene	<0.00200	0.100	0.0978	98	0.0965	97	70-130	1	35	mg/kg	06.18.2020 22:15	
Ethylbenzene	<0.00200	0.100	0.0971	97	0.100	100	70-130	3	35	mg/kg	06.18.2020 22:15	
m,p-Xylenes	<0.00400	0.200	0.192	96	0.198	99	70-130	3	35	mg/kg	06.18.2020 22:15	
o-Xylene	<0.00200	0.100	0.0980	98	0.101	101	70-130	3	35	mg/kg	06.18.2020 22:15	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	105		100		100		70-130	%	06.18.2020 22:15

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

Conoco #1

Analytical Method: BTEX by EPA 8021B

Seq Number: 3129472

MB Sample Id: 7705784-1-BLK

Matrix: Solid

LCS Sample Id: 7705784-1-BKS

Prep Method: SW5035A

Date Prep: 06.18.2020

LCSD Sample Id: 7705784-1-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	0.0731	73	0.0740	74	70-130	1	35	mg/kg	06.19.2020 05:26	
Toluene	<0.00200	0.100	0.0959	96	0.0992	99	70-130	3	35	mg/kg	06.19.2020 05:26	
Ethylbenzene	<0.00200	0.100	0.110	110	0.115	115	70-130	4	35	mg/kg	06.19.2020 05:26	
m,p-Xylenes	<0.00400	0.200	0.222	111	0.233	117	70-130	5	35	mg/kg	06.19.2020 05:26	
o-Xylene	<0.00200	0.100	0.113	113	0.118	118	70-130	4	35	mg/kg	06.19.2020 05:26	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	89		88		87		70-130	%	06.19.2020 05:26
4-Bromofluorobenzene	118		113		117		70-130	%	06.19.2020 05:26

Analytical Method: BTEX by EPA 8021B

Seq Number: 3129598

MB Sample Id: 7705910-1-BLK

Matrix: Solid

LCS Sample Id: 7705910-1-BKS

Prep Method: SW5035A

Date Prep: 06.19.2020

LCSD Sample Id: 7705910-1-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	0.0952	95	0.0976	98	70-130	2	35	mg/kg	06.19.2020 09:11	
Toluene	<0.00200	0.100	0.0914	91	0.0952	95	70-130	4	35	mg/kg	06.19.2020 09:11	
Ethylbenzene	<0.00200	0.100	0.0907	91	0.0951	95	70-130	5	35	mg/kg	06.19.2020 09:11	
m,p-Xylenes	<0.00400	0.200	0.181	91	0.191	96	70-130	5	35	mg/kg	06.19.2020 09:11	
o-Xylene	<0.00200	0.100	0.0920	92	0.0963	96	70-130	5	35	mg/kg	06.19.2020 09:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	102		98		98		70-130	%	06.19.2020 09:11

Analytical Method: BTEX by EPA 8021B

Seq Number: 3129395

Parent Sample Id: 664315-078

Matrix: Soil

MS Sample Id: 664315-078 S

Prep Method: SW5035A

Date Prep: 06.18.2020

MSD Sample Id: 664315-078 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0832	84	0.0874	87	70-130	5	35	mg/kg	06.18.2020 22:56	
Toluene	<0.00198	0.0992	0.0754	76	0.0820	82	70-130	8	35	mg/kg	06.18.2020 22:56	
Ethylbenzene	<0.00198	0.0992	0.0705	71	0.0817	82	70-130	15	35	mg/kg	06.18.2020 22:56	
m,p-Xylenes	<0.00397	0.198	0.136	69	0.158	79	70-130	15	35	mg/kg	06.18.2020 22:56	X
o-Xylene	<0.00198	0.0992	0.0723	73	0.0825	83	70-130	13	35	mg/kg	06.18.2020 22:56	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	101		102		70-130	%	06.18.2020 22:56

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

Conoco #1

Analytical Method: BTEX by EPA 8021B

Seq Number: 3129472

Parent Sample Id: 664618-009

Matrix: Soil

MS Sample Id: 664618-009 S

Prep Method: SW5035A

Date Prep: 06.18.2020

MSD Sample Id: 664618-009 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	0.0523	52	0.0575	58	70-130	9	35	mg/kg	06.19.2020 06:07	X
Toluene	<0.00200	0.100	0.0695	70	0.0732	74	70-130	5	35	mg/kg	06.19.2020 06:07	
Ethylbenzene	<0.00200	0.100	0.0831	83	0.0859	86	70-130	3	35	mg/kg	06.19.2020 06:07	
m,p-Xylenes	<0.00400	0.200	0.170	85	0.173	87	70-130	2	35	mg/kg	06.19.2020 06:07	
o-Xylene	<0.00200	0.100	0.0872	87	0.0886	89	70-130	2	35	mg/kg	06.19.2020 06:07	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		90		70-130	%	06.19.2020 06:07
4-Bromofluorobenzene	120		119		70-130	%	06.19.2020 06:07

Analytical Method: BTEX by EPA 8021B

Seq Number: 3129598

Parent Sample Id: 664415-001

Matrix: Soil

MS Sample Id: 664415-001 S

Prep Method: SW5035A

Date Prep: 06.19.2020

MSD Sample Id: 664415-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0734	73	0.0441	44	70-130	50	35	mg/kg	06.19.2020 09:52	XF
Toluene	0.00284	0.101	0.0712	68	0.0466	44	70-130	42	35	mg/kg	06.19.2020 09:52	XF
Ethylbenzene	0.000815	0.101	0.0694	68	0.0455	45	70-130	42	35	mg/kg	06.19.2020 09:52	XF
m,p-Xylenes	0.00160	0.202	0.132	65	0.0910	45	70-130	37	35	mg/kg	06.19.2020 09:52	XF
o-Xylene	0.000656	0.101	0.0702	69	0.0493	49	70-130	35	35	mg/kg	06.19.2020 09:52	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	99		104		70-130	%	06.19.2020 09:52

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

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:

664364

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Project Manager:		Lance Crenshaw		Bill to: (if different)		Teffanie Fawks	
Company Name:		Elech Environmental and Safety		Company Name:		Endeavor	
Address:		3100 Plains Hwy		Address:			
City, State ZIP:		Lovington, NM, 88260		City, State ZIP:			
Phone:		575-396-2378		Email:		Email Results to: PM@elecheny.com + Client	
Project Name:				Turn Around			
Project Number:				12384			
Project Location:				Rural Chavez			
Sampler's Name:				Hector Villa			
PO #:							
SAMPLE RECEIPT				ANALYSIS REQUEST			
Temperature (°C):		Temp Blank:		Yes		No	
Received intact:		Yes		No		Thermometer ID	
Cooler Custody Seals:		Yes		No		Correction Factor:	
Sample Custody Seals:		Yes		No		Total Containers:	
Sample Identification		Matrix		Date Sampled		Time Sampled	
SW1		Soil		6/10/2020			
SW2		Soil		6/10/2020			
SW3		Soil		6/10/2020			
SW4		Soil		6/10/2020			
SW5		Soil		6/10/2020			
EW1		Soil		6/10/2020		11:16	
EW2		Soil		6/10/2020		11:20	
EW3		Soil		6/10/2020		11:24	
NW1		Soil		6/10/2020			
NW2		Soil		6/10/2020			
Number of Containers/Preservative Code		BTEX (SW 846 8021B)		TPH (SW 846 8015M Ext.)		Cl- (4500 Cl)	
SW1		1/NO		X		X	
SW2		1/NO		X		X	
SW3		1/NO		X		X	
SW4		1/NO		X		X	
SW5		1/NO		X		X	
EW1		1/NO		X		X	
EW2		1/NO		X		X	
EW3		1/NO		X		X	
NW1		1/NO		X		X	
NW2		1/NO		X		X	
Sample Comments							
Preservative Codes		HNO3: HN		H2SO4: H2		HCL: HL	
		NaOH: Na		MeOH: Me		Zn Acetate+ NaOH: Zn	
		TAT starts the day received by the lab, if received by 4:30pm					

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. [Signature]	2. [Signature]	2	3. [Signature]	4. [Signature]	4
5. [Signature]	6. [Signature]	6			



Chain of Custody

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Hobbs, NM (575) 382-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6707
Atlanta, GA (770) 449-8800

Work Order No: 6064364

Project Manager:	Lance Crenshaw	Bill to: (if different)	Terranie Fawks
Company Name:	Etech Environmental and Safety	Company Name:	Endeavor
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Livingston, NM 88260	City, State ZIP:	
Phone:	575-366-2378	Email:	Email Results to: <u>PM@etechnv.com</u> + Client

Work Order Comments			
Program: UST/PT	☐ 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							
Sample's Name:				Due Date:																HCL: HL							
PO #:																				None: NO							
SAMPLE RECEIPT				Temp Blank: ☒				Wet Ice: ☒																NaOH: Na			
Temperature (°C):				Thermometer ID:																MeOH: Me							
Received In tact:				Yes No																Zn Acetate+ NaOH: Zn							
Cooler Custody Seals:				Yes No N/A																TAT starts the day received by the lab, if received by 4:30pm							
Sample Custody Seals:				Yes No N/A																							
Sample Identification				Matrix		Date Sampled		Time Sampled		Depth		Number of Containers/Preservative Code										Sample Comments					
NW3 @ 4'				Soil		6/10/2020				4'		1/NO X X X															
FL1 @ 4'				Soil		6/10/2020				4'		1/NO X X															
FL2 @ 4'				Soil		6/11/2020				4'		1/NO X X															
FL3 @ 4'				Soil		6/11/2020				4'		1/NO X X															
FL4 @ 4'				Soil		6/11/2020				4'		1/NO X X															
FL5 @ 4'				Soil		6/11/2020				4'		1/NO X X															
FL6 @ 4'				Soil		6/11/2020				4'		1/NO X X															
FL7 @ 4'				Soil		6/10/2020				4'		1/NO X X															
FL8 @ 4'				Soil		6/10/2020				4'		1/NO X X															
FL9 @ 4'				Soil		6/10/2020				4'		1/NO X X															

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>[Signature]</i>			2 <i>[Signature]</i>		6/15/93
3			4		
5			6		

Revised Date 10/14/19 Rev. 2019.



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
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 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
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Work Order No: 1604364

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Project Manager:	Lance Crenshaw	Bill to: (if different)	Teffanie Fawks
Company Name:	Etech Environmental and Safety	Company Name:	Endeavor
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to: PM@etechnv.com + Client

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

Project Name:	Conoco #1		Turn Around	ANALYSIS REQUEST																Preservative Codes					
Project Number:	12384		Routine: ☒																	HNO3: HN					
Project Location:	Rural Chavez		Rush: ☐																	H2SO4: H2					
Sampler's Name:	Hector Villa		Due Date:																	HCL: HL					
PO #																				None: NO					
SAMPLE RECEIPT				Temp Blank:	Yes ☐ No ☒	Well Ice:	Yes ☐ No ☒																	NaOH: Na	
Temperature (°C):	42.8		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 ☒																								
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code																Sample Comments				
FL10 @ 4'	Soil	6/11/2020		4'	1/NO	X	X	BTX (SW 846 8021B)																	
FL11 @ 4'	Soil	6/10/2020		4'	1/NO	X	X	TPH (SW 846 8015M Ext.)																	
FL12 @ 4'	Soil	6/10/2020		4'	1/NO	X	X	CI- (4500 CI)																	

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

Note: 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
<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	
5			6		

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 06.12.2020 04.00.00 PM

Work Order #: 664364

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 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	N/A	
#6 *Custody Seals Signed and dated?	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	BTEX RECEIVED IN BULK CONTAINER
#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: 06.15.2020

Checklist reviewed by:



Jessica Kramer

Date: 06.15.2020



Certificate of Analysis Summary 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #1

Project Id: 12384
Contact: PM
Project Location: Rural Chavez

Date Received in Lab: Fri 06.19.2020 11:15
Report Date: 06.22.2020 16:29
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	664884-001	664884-002	664884-003	664884-004	664884-005	664884-006
	<i>Field Id:</i>	NW5	NW6	NW7	SW7A	FL 18 @ 4'	FL 19 @ 4'
	<i>Depth:</i>				4- ft	4- ft	4- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	06.17.2020 00:00	06.17.2020 00:00	06.17.2020 00:00	06.17.2020 00:00	06.17.2020 00:00	06.17.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	06.19.2020 18:00	06.19.2020 18:00	06.19.2020 18:00	06.19.2020 18:00	06.19.2020 18:00	06.19.2020 18:00
	<i>Analyzed:</i>	06.19.2020 20:51	06.19.2020 21:12	06.19.2020 21:32	06.19.2020 21:52	06.19.2020 22:13	06.19.2020 22:33
	<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	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
m,p-Xylenes		<0.00400 0.00400	<0.00398 0.00398	<0.00396 0.00396	<0.00398 0.00398	<0.00402 0.00402	<0.00403 0.00403
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Chloride by EPA 300	<i>Extracted:</i>	06.19.2020 14:00	06.19.2020 14:00	06.19.2020 14:00	06.19.2020 14:00	06.19.2020 14:00	06.19.2020 14:00
	<i>Analyzed:</i>	06.19.2020 14:47	06.19.2020 15:06	06.19.2020 15:13	06.19.2020 15:19	06.19.2020 15:25	06.19.2020 15:44
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		8.07 X 5.00	9.11 4.95	16.3 4.99	25.8 4.96	3380 25.1	4230 24.9
TPH By SW8015 Mod	<i>Extracted:</i>	06.20.2020 13:00	06.20.2020 13:00	06.20.2020 13:00	06.20.2020 13:00	06.20.2020 13:00	06.20.2020 13:00
	<i>Analyzed:</i>	06.21.2020 04:12	06.21.2020 05:08	06.21.2020 05:27	06.21.2020 05:46	06.21.2020 06:04	06.21.2020 06:23
	<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	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9
Total TPH		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9

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Jessica Kramer
Project Manager



Certificate of Analysis Summary 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #1

Project Id: 12384
Contact: PM
Project Location: Rural Chavez

Date Received in Lab: Fri 06.19.2020 11:15
Report Date: 06.22.2020 16:29
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	664884-007	664884-008	664884-009	664884-010	664884-011	664884-012
	<i>Field Id:</i>	FL 20 @ 4'	FL 21 @ 4'	FL 22 @ 4'	FL 23 @ 4'	NW8A	SW8
	<i>Depth:</i>	4- ft	4- ft	4- ft	4- ft		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	06.17.2020 00:00	06.17.2020 00:00	06.17.2020 00:00	06.17.2020 00:00	06.18.2020 00:00	06.18.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	06.19.2020 18:00	06.19.2020 18:00	06.19.2020 18:00	06.19.2020 18:00	06.19.2020 18:00	06.19.2020 18:00
	<i>Analyzed:</i>	06.19.2020 22:54	06.19.2020 23:14	06.19.2020 23:35	06.19.2020 23:55	06.20.2020 01:16	06.20.2020 01:37
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199
Toluene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199
Ethylbenzene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199
m,p-Xylenes		<0.00402 0.00402	<0.00398 0.00398	<0.00401 0.00401	<0.00399 0.00399	<0.00397 0.00397	<0.00398 0.00398
o-Xylene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199
Total Xylenes		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199
Total BTEX		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	06.19.2020 14:00	06.19.2020 14:00	06.19.2020 14:00	06.19.2020 14:00	06.19.2020 14:00	06.19.2020 14:00
	<i>Analyzed:</i>	06.19.2020 15:51	06.19.2020 15:57	06.19.2020 16:04	06.19.2020 16:10	06.19.2020 16:16	06.19.2020 16:35
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1250 5.00	652 4.96	2850 24.8	3980 25.0	18.1 5.04	20.1 4.97
TPH By SW8015 Mod	<i>Extracted:</i>	06.20.2020 13:00	06.20.2020 13:00	06.20.2020 13:00	06.20.2020 13:00	06.20.2020 13:00	06.20.2020 13:00
	<i>Analyzed:</i>	06.21.2020 06:42	06.21.2020 07:01	06.21.2020 07:20	06.21.2020 07:39	06.21.2020 08:17	06.21.2020 08:36
	<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	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Total TPH		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0

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Jessica Kramer
Project Manager



Certificate of Analysis Summary 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #1

Project Id: 12384
Contact: PM
Project Location: Rural Chavez

Date Received in Lab: Fri 06.19.2020 11:15
Report Date: 06.22.2020 16:29
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	664884-013	664884-014	664884-015	664884-016	664884-017	664884-018
	<i>Field Id:</i>	SW9	WWA	FL 24 @ 4'	FL 25 @ 4'	FL 26 @ 4'	FL 27 @ 4'
	<i>Depth:</i>			4- ft	4- ft	4- ft	4- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	06.18.2020 00:00	06.18.2020 00:00	06.18.2020 00:00	06.18.2020 00:00	06.18.2020 00:00	06.18.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	06.19.2020 18:00	06.19.2020 18:00	06.19.2020 18:00	06.19.2020 18:00	06.19.2020 18:00	06.19.2020 18:00
	<i>Analyzed:</i>	06.20.2020 01:57	06.20.2020 02:17	06.20.2020 02:38	06.20.2020 02:58	06.20.2020 03:19	06.20.2020 03:39
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	0.00551 0.00200
m,p-Xylenes		<0.00398 0.00398	<0.00403 0.00403	<0.00398 0.00398	<0.00402 0.00402	<0.00401 0.00401	0.00421 0.00400
o-Xylene		<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	0.00347 0.00200
Total Xylenes		<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	0.00768 0.00200
Total BTEX		<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	0.0132 0.00200
Chloride by EPA 300	<i>Extracted:</i>	06.19.2020 14:00	06.19.2020 14:00	06.19.2020 14:00	06.19.2020 14:00	06.19.2020 14:00	06.19.2020 14:00
	<i>Analyzed:</i>	06.19.2020 16:42	06.19.2020 17:01	06.19.2020 17:07	06.19.2020 17:13	06.19.2020 17:20	06.19.2020 17:26
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		151 4.95	199 5.02	143 4.98	742 5.05	713 5.05	1580 25.0
TPH By SW8015 Mod	<i>Extracted:</i>	06.20.2020 13:00	06.20.2020 13:00	06.20.2020 13:00	06.20.2020 13:00	06.20.2020 13:00	06.20.2020 13:00
	<i>Analyzed:</i>	06.21.2020 08:55	06.21.2020 09:14	06.21.2020 09:33	06.21.2020 09:52	06.21.2020 10:11	06.21.2020 10:31
	<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)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	112 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Total TPH		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	112 50.0

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Jessica Kramer
Project Manager



Certificate of Analysis Summary 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #1

Project Id: 12384
Contact: PM
Project Location: Rural Chavez

Date Received in Lab: Fri 06.19.2020 11:15
Report Date: 06.22.2020 16:29
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	664884-019	664884-020	664884-021			
	Field Id:	FL 28 @ 4'	FL 29 @ 4'	FL 30 @ 4'			
	Depth:	4- ft	4- ft	4- ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	06.18.2020 00:00	06.18.2020 00:00	06.18.2020 00:00			
BTEX by EPA 8021B	Extracted:	06.19.2020 18:00	06.19.2020 18:00	06.19.2020 18:15			
	Analyzed:	06.20.2020 04:00	06.20.2020 04:20	06.20.2020 16:45			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200			
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200			
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200			
m,p-Xylenes		<0.00398 0.00398	<0.00397 0.00397	<0.00400 0.00400			
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200			
Total Xylenes		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200			
Total BTEX		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200			
Chloride by EPA 300	Extracted:	06.19.2020 14:00	06.19.2020 14:00	06.19.2020 15:25			
	Analyzed:	06.19.2020 17:32	06.19.2020 17:39	06.19.2020 18:17			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		1140 5.04	1380 4.99	538 X 4.97			
TPH By SW8015 Mod	Extracted:	06.20.2020 13:00	06.20.2020 13:00	06.19.2020 15:00			
	Analyzed:	06.21.2020 10:50	06.21.2020 11:10	06.20.2020 04:05			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0			
Diesel Range Organics (DRO)		161 49.9	59.2 49.8	92.6 50.0			
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0			
Total TPH		161 49.9	59.2 49.8	92.6 50.0			

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Jessica Kramer
Project Manager



Analytical Report 664884

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Conoco #1

12384

06.22.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-34), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.22.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: XENCO Report No(s): **664884**

Conoco #1

Project Address: Rural Chavez

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 XENCO Report Number(s) 664884. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 664884 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'. The signature is written in a cursive, flowing style.

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 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NW5	S	06.17.2020 00:00		664884-001
NW6	S	06.17.2020 00:00		664884-002
NW7	S	06.17.2020 00:00		664884-003
SW7A	S	06.17.2020 00:00	4 ft	664884-004
FL 18 @ 4'	S	06.17.2020 00:00	4 ft	664884-005
FL 19 @ 4'	S	06.17.2020 00:00	4 ft	664884-006
FL 20 @ 4'	S	06.17.2020 00:00	4 ft	664884-007
FL 21 @ 4'	S	06.17.2020 00:00	4 ft	664884-008
FL 22 @ 4'	S	06.17.2020 00:00	4 ft	664884-009
FL 23 @ 4'	S	06.17.2020 00:00	4 ft	664884-010
NW8A	S	06.18.2020 00:00		664884-011
SW8	S	06.18.2020 00:00		664884-012
SW9	S	06.18.2020 00:00		664884-013
WWA	S	06.18.2020 00:00		664884-014
FL 24 @ 4'	S	06.18.2020 00:00	4 ft	664884-015
FL 25 @ 4'	S	06.18.2020 00:00	4 ft	664884-016
FL 26 @ 4'	S	06.18.2020 00:00	4 ft	664884-017
FL 27 @ 4'	S	06.18.2020 00:00	4 ft	664884-018
FL 28 @ 4'	S	06.18.2020 00:00	4 ft	664884-019
FL 29 @ 4'	S	06.18.2020 00:00	4 ft	664884-020
FL 30 @ 4'	S	06.18.2020 00:00	4 ft	664884-021

**CASE NARRATIVE****Client Name: Etech Environmental & Safety Solution, Inc****Project Name: Conoco #1**

Project ID: 12384
Work Order Number(s): 664884

Report Date: 06.22.2020
Date Received: 06.19.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3129538 Chloride by EPA 300

Lab Sample ID 664884-011 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: 664884-001, -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-3129540 Chloride by EPA 300

Lab Sample ID 664884-021 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 664884-021.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3129570 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7705875-1-BLK.

Batch: LBA-3129605 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 664884-003,664884-004,664884-005,664884-020,664884-017,664884-019,664884-015.

Lab Sample ID 664884-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 664884-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.

The Laboratory Control Sample for Benzene is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: NW5
Lab Sample Id: 664884-001

Matrix: Soil
Date Collected: 06.17.2020 00:00

Date Received: 06.19.2020 11:15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.07	5.00	mg/kg	06.19.2020 14:47	X	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.20.2020 13:00

Basis: Wet Weight

Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.21.2020 04:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.21.2020 04:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.21.2020 04:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.21.2020 04:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-130	06.21.2020 04:12	
o-Terphenyl	84-15-1	130	%	70-130	06.21.2020 04:12	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: NW5
Lab Sample Id: 664884-001

Matrix: Soil
Date Collected: 06.17.2020 00:00

Date Received: 06.19.2020 11:15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.19.2020 20:51	UX	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.19.2020 20:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.19.2020 20:51	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.19.2020 20:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.19.2020 20:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.19.2020 20:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.19.2020 20:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	127	%	70-130	06.19.2020 20:51	
1,4-Difluorobenzene	540-36-3	89	%	70-130	06.19.2020 20:51	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **NW6**
Lab Sample Id: 664884-002

Matrix: Soil
Date Collected: 06.17.2020 00:00

Date Received: 06.19.2020 11:15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.11	4.95	mg/kg	06.19.2020 15:06		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.20.2020 13:00

Basis: Wet Weight

Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.21.2020 05:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.21.2020 05:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.21.2020 05:08	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.21.2020 05:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	06.21.2020 05:08	
o-Terphenyl	84-15-1	105	%	70-130	06.21.2020 05:08	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **NW6**
Lab Sample Id: 664884-002

Matrix: Soil
Date Collected: 06.17.2020 00:00

Date Received: 06.19.2020 11:15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.19.2020 21:12	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.19.2020 21:12	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.19.2020 21:12	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.19.2020 21:12	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.19.2020 21:12	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.19.2020 21:12	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.19.2020 21:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	95	%	70-130	06.19.2020 21:12		
4-Bromofluorobenzene	460-00-4	93	%	70-130	06.19.2020 21:12		



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **NW7**
Lab Sample Id: 664884-003

Matrix: Soil
Date Collected: 06.17.2020 00:00

Date Received: 06.19.2020 11:15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.3	4.99	mg/kg	06.19.2020 15:13		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.20.2020 13:00

Basis: Wet Weight

Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.21.2020 05:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.21.2020 05:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.21.2020 05:27	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.21.2020 05:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	06.21.2020 05:27	
o-Terphenyl	84-15-1	116	%	70-130	06.21.2020 05:27	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: NW7
Lab Sample Id: 664884-003

Matrix: Soil
Date Collected: 06.17.2020 00:00

Date Received: 06.19.2020 11:15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.19.2020 21:32	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.19.2020 21:32	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.19.2020 21:32	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	06.19.2020 21:32	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.19.2020 21:32	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.19.2020 21:32	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.19.2020 21:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	91	%	70-130	06.19.2020 21:32		
4-Bromofluorobenzene	460-00-4	138	%	70-130	06.19.2020 21:32	**	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW7A** Matrix: Soil Date Received: 06.19.2020 11:15
 Lab Sample Id: 664884-004 Date Collected: 06.17.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 06.19.2020 14:00 Basis: Wet Weight
 Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.8	4.96	mg/kg	06.19.2020 15:19		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.20.2020 13:00 Basis: Wet Weight
 Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.21.2020 05:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.21.2020 05:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.21.2020 05:46	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.21.2020 05:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	06.21.2020 05:46	
o-Terphenyl	84-15-1	116	%	70-130	06.21.2020 05:46	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW7A**
Lab Sample Id: 664884-004

Matrix: Soil
Date Collected: 06.17.2020 00:00

Date Received: 06.19.2020 11:15
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.19.2020 21:52	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.19.2020 21:52	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.19.2020 21:52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.19.2020 21:52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.19.2020 21:52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.19.2020 21:52	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.19.2020 21:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	134	%	70-130	06.19.2020 21:52	**	
1,4-Difluorobenzene	540-36-3	91	%	70-130	06.19.2020 21:52		



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 18 @ 4'** Matrix: Soil Date Received: 06.19.2020 11:15
 Lab Sample Id: 664884-005 Date Collected: 06.17.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 06.19.2020 14:00 Basis: Wet Weight
 Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3380	25.1	mg/kg	06.19.2020 15:25		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.20.2020 13:00 Basis: Wet Weight
 Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.21.2020 06:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.21.2020 06:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.21.2020 06:04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.21.2020 06:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	06.21.2020 06:04	
o-Terphenyl	84-15-1	117	%	70-130	06.21.2020 06:04	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 18 @ 4'**

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-005

Date Collected: 06.17.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.19.2020 22:13	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.19.2020 22:13	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.19.2020 22:13	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.19.2020 22:13	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.19.2020 22:13	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.19.2020 22:13	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.19.2020 22:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	131	%	70-130	06.19.2020 22:13	**
1,4-Difluorobenzene	540-36-3	86	%	70-130	06.19.2020 22:13	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 19 @ 4'** Matrix: Soil Date Received: 06.19.2020 11:15
 Lab Sample Id: 664884-006 Date Collected: 06.17.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 06.19.2020 14:00 Basis: Wet Weight
 Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4230	24.9	mg/kg	06.19.2020 15:44		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.20.2020 13:00 Basis: Wet Weight
 Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.21.2020 06:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.21.2020 06:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.21.2020 06:23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.21.2020 06:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	06.21.2020 06:23	
o-Terphenyl	84-15-1	113	%	70-130	06.21.2020 06:23	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 19 @ 4'**

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-006

Date Collected: 06.17.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.19.2020 22:33	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.19.2020 22:33	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.19.2020 22:33	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	06.19.2020 22:33	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.19.2020 22:33	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.19.2020 22:33	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.19.2020 22:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	126	%	70-130	06.19.2020 22:33	
1,4-Difluorobenzene	540-36-3	91	%	70-130	06.19.2020 22:33	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 20 @ 4'**

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-007

Date Collected: 06.17.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1250	5.00	mg/kg	06.19.2020 15:51		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.20.2020 13:00

Basis: Wet Weight

Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.21.2020 06:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.21.2020 06:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.21.2020 06:42	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.21.2020 06:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	06.21.2020 06:42	
o-Terphenyl	84-15-1	111	%	70-130	06.21.2020 06:42	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 20 @ 4'**

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-007

Date Collected: 06.17.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.19.2020 22:54	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.19.2020 22:54	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.19.2020 22:54	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.19.2020 22:54	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.19.2020 22:54	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.19.2020 22:54	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.19.2020 22:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	91	%	70-130	06.19.2020 22:54	
4-Bromofluorobenzene	460-00-4	125	%	70-130	06.19.2020 22:54	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: FL 21 @ 4'

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-008

Date Collected: 06.17.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	652	4.96	mg/kg	06.19.2020 15:57		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.20.2020 13:00

Basis: Wet Weight

Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.21.2020 07:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.21.2020 07:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.21.2020 07:01	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.21.2020 07:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	06.21.2020 07:01	
o-Terphenyl	84-15-1	115	%	70-130	06.21.2020 07:01	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 21 @ 4'**

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-008

Date Collected: 06.17.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.19.2020 23:14	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.19.2020 23:14	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.19.2020 23:14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.19.2020 23:14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.19.2020 23:14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.19.2020 23:14	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.19.2020 23:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95	%	70-130	06.19.2020 23:14	
4-Bromofluorobenzene	460-00-4	92	%	70-130	06.19.2020 23:14	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 22 @ 4'** Matrix: Soil Date Received: 06.19.2020 11:15
 Lab Sample Id: 664884-009 Date Collected: 06.17.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 06.19.2020 14:00 Basis: Wet Weight
 Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2850	24.8	mg/kg	06.19.2020 16:04		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.20.2020 13:00 Basis: Wet Weight
 Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.21.2020 07:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.21.2020 07:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.21.2020 07:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.21.2020 07:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	06.21.2020 07:20	
o-Terphenyl	84-15-1	112	%	70-130	06.21.2020 07:20	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 22 @ 4'**

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-009

Date Collected: 06.17.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.19.2020 23:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.19.2020 23:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.19.2020 23:35	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.19.2020 23:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.19.2020 23:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.19.2020 23:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.19.2020 23:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	127	%	70-130	06.19.2020 23:35	
1,4-Difluorobenzene	540-36-3	89	%	70-130	06.19.2020 23:35	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 23 @ 4'** Matrix: Soil Date Received: 06.19.2020 11:15
 Lab Sample Id: 664884-010 Date Collected: 06.17.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 06.19.2020 14:00 Basis: Wet Weight
 Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3980	25.0	mg/kg	06.19.2020 16:10		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.20.2020 13:00 Basis: Wet Weight
 Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.21.2020 07:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.21.2020 07:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.21.2020 07:39	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.21.2020 07:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	06.21.2020 07:39	
o-Terphenyl	84-15-1	116	%	70-130	06.21.2020 07:39	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: FL 23 @ 4'

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-010

Date Collected: 06.17.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.19.2020 23:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.19.2020 23:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.19.2020 23:55	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.19.2020 23:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.19.2020 23:55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.19.2020 23:55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.19.2020 23:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	85	%	70-130	06.19.2020 23:55	
1,4-Difluorobenzene	540-36-3	95	%	70-130	06.19.2020 23:55	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **NW8A**
Lab Sample Id: 664884-011

Matrix: Soil
Date Collected: 06.18.2020 00:00

Date Received: 06.19.2020 11:15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.1	5.04	mg/kg	06.19.2020 16:16		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.20.2020 13:00

Basis: Wet Weight

Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.21.2020 08:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.21.2020 08:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.21.2020 08:17	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.21.2020 08:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	06.21.2020 08:17	
o-Terphenyl	84-15-1	118	%	70-130	06.21.2020 08:17	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **NW8A**
Lab Sample Id: 664884-011

Matrix: Soil
Date Collected: 06.18.2020 00:00

Date Received: 06.19.2020 11:15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.20.2020 01:16	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.20.2020 01:16	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.20.2020 01:16	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.20.2020 01:16	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.20.2020 01:16	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.20.2020 01:16	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.20.2020 01:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	90	%	70-130	06.20.2020 01:16	
4-Bromofluorobenzene	460-00-4	113	%	70-130	06.20.2020 01:16	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW8**
Lab Sample Id: 664884-012

Matrix: Soil
Date Collected: 06.18.2020 00:00

Date Received: 06.19.2020 11:15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.1	4.97	mg/kg	06.19.2020 16:35		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.20.2020 13:00

Basis: Wet Weight

Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.21.2020 08:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.21.2020 08:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.21.2020 08:36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.21.2020 08:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	06.21.2020 08:36	
o-Terphenyl	84-15-1	111	%	70-130	06.21.2020 08:36	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW8**
Lab Sample Id: 664884-012

Matrix: Soil
Date Collected: 06.18.2020 00:00

Date Received: 06.19.2020 11:15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.20.2020 01:37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.20.2020 01:37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.20.2020 01:37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.20.2020 01:37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.20.2020 01:37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.20.2020 01:37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.20.2020 01:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	88	%	70-130	06.20.2020 01:37	
4-Bromofluorobenzene	460-00-4	128	%	70-130	06.20.2020 01:37	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW9**
Lab Sample Id: 664884-013

Matrix: Soil
Date Collected: 06.18.2020 00:00

Date Received: 06.19.2020 11:15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	151	4.95	mg/kg	06.19.2020 16:42		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.20.2020 13:00

Basis: Wet Weight

Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.21.2020 08:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.21.2020 08:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.21.2020 08:55	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.21.2020 08:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	06.21.2020 08:55	
o-Terphenyl	84-15-1	108	%	70-130	06.21.2020 08:55	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW9**
Lab Sample Id: 664884-013

Matrix: Soil
Date Collected: 06.18.2020 00:00

Date Received: 06.19.2020 11:15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.20.2020 01:57	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.20.2020 01:57	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.20.2020 01:57	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.20.2020 01:57	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.20.2020 01:57	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.20.2020 01:57	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.20.2020 01:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	124	%	70-130	06.20.2020 01:57	
1,4-Difluorobenzene	540-36-3	91	%	70-130	06.20.2020 01:57	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **WWA** Matrix: Soil Date Received: 06.19.2020 11:15
 Lab Sample Id: 664884-014 Date Collected: 06.18.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 06.19.2020 14:00 Basis: Wet Weight
 Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	199	5.02	mg/kg	06.19.2020 17:01		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.20.2020 13:00 Basis: Wet Weight
 Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.21.2020 09:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.21.2020 09:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.21.2020 09:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.21.2020 09:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	06.21.2020 09:14	
o-Terphenyl	84-15-1	105	%	70-130	06.21.2020 09:14	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **WWA**
Lab Sample Id: 664884-014

Matrix: Soil
Date Collected: 06.18.2020 00:00

Date Received: 06.19.2020 11:15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.20.2020 02:17	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.20.2020 02:17	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.20.2020 02:17	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	06.20.2020 02:17	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.20.2020 02:17	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.20.2020 02:17	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.20.2020 02:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	129	%	70-130	06.20.2020 02:17		
1,4-Difluorobenzene	540-36-3	92	%	70-130	06.20.2020 02:17		



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 24 @ 4'** Matrix: Soil Date Received: 06.19.2020 11:15
 Lab Sample Id: 664884-015 Date Collected: 06.18.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 06.19.2020 14:00 Basis: Wet Weight
 Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	143	4.98	mg/kg	06.19.2020 17:07		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.20.2020 13:00 Basis: Wet Weight
 Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.21.2020 09:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.21.2020 09:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.21.2020 09:33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.21.2020 09:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	06.21.2020 09:33	
o-Terphenyl	84-15-1	119	%	70-130	06.21.2020 09:33	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 24 @ 4'**

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-015

Date Collected: 06.18.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.20.2020 02:38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.20.2020 02:38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.20.2020 02:38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.20.2020 02:38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.20.2020 02:38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.20.2020 02:38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.20.2020 02:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	131	%	70-130	06.20.2020 02:38	**	
1,4-Difluorobenzene	540-36-3	90	%	70-130	06.20.2020 02:38		



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 25 @ 4'** Matrix: Soil Date Received: 06.19.2020 11:15
 Lab Sample Id: 664884-016 Date Collected: 06.18.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 06.19.2020 14:00 Basis: Wet Weight
 Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	742	5.05	mg/kg	06.19.2020 17:13		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.20.2020 13:00 Basis: Wet Weight
 Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.21.2020 09:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.21.2020 09:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.21.2020 09:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.21.2020 09:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	06.21.2020 09:52	
o-Terphenyl	84-15-1	112	%	70-130	06.21.2020 09:52	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: FL 25 @ 4'

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-016

Date Collected: 06.18.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.20.2020 02:58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.20.2020 02:58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.20.2020 02:58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.20.2020 02:58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.20.2020 02:58	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.20.2020 02:58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.20.2020 02:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	90	%	70-130	06.20.2020 02:58	
4-Bromofluorobenzene	460-00-4	125	%	70-130	06.20.2020 02:58	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 26 @ 4'**

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-017

Date Collected: 06.18.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	713	5.05	mg/kg	06.19.2020 17:20		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.20.2020 13:00

Basis: Wet Weight

Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.21.2020 10:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.21.2020 10:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.21.2020 10:11	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.21.2020 10:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	06.21.2020 10:11	
o-Terphenyl	84-15-1	119	%	70-130	06.21.2020 10:11	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 26 @ 4'**

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-017

Date Collected: 06.18.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.20.2020 03:19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.20.2020 03:19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.20.2020 03:19	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.20.2020 03:19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.20.2020 03:19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.20.2020 03:19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.20.2020 03:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	91	%	70-130	06.20.2020 03:19		
4-Bromofluorobenzene	460-00-4	133	%	70-130	06.20.2020 03:19	**	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: FL 27 @ 4'

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-018

Date Collected: 06.18.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1580	25.0	mg/kg	06.19.2020 17:26		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.20.2020 13:00

Basis: Wet Weight

Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.21.2020 10:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	112	50.0	mg/kg	06.21.2020 10:31		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.21.2020 10:31	U	1
Total TPH	PHC635	112	50.0	mg/kg	06.21.2020 10:31		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	06.21.2020 10:31	
o-Terphenyl	84-15-1	116	%	70-130	06.21.2020 10:31	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: FL 27 @ 4'

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-018

Date Collected: 06.18.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.20.2020 03:39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.20.2020 03:39	U	1
Ethylbenzene	100-41-4	0.00551	0.00200	mg/kg	06.20.2020 03:39		1
m,p-Xylenes	179601-23-1	0.00421	0.00400	mg/kg	06.20.2020 03:39		1
o-Xylene	95-47-6	0.00347	0.00200	mg/kg	06.20.2020 03:39		1
Total Xylenes	1330-20-7	0.00768	0.00200	mg/kg	06.20.2020 03:39		1
Total BTEX		0.0132	0.00200	mg/kg	06.20.2020 03:39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92	%	70-130	06.20.2020 03:39	
4-Bromofluorobenzene	460-00-4	129	%	70-130	06.20.2020 03:39	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 28 @ 4'**

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-019

Date Collected: 06.18.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.19.2020 14:00

Basis: Wet Weight

Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1140	5.04	mg/kg	06.19.2020 17:32		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.20.2020 13:00

Basis: Wet Weight

Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.21.2020 10:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	161	49.9	mg/kg	06.21.2020 10:50		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.21.2020 10:50	U	1
Total TPH	PHC635	161	49.9	mg/kg	06.21.2020 10:50		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	06.21.2020 10:50	
o-Terphenyl	84-15-1	113	%	70-130	06.21.2020 10:50	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 28 @ 4'**

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-019

Date Collected: 06.18.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.20.2020 04:00	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.20.2020 04:00	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.20.2020 04:00	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.20.2020 04:00	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.20.2020 04:00	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.20.2020 04:00	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.20.2020 04:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	135	%	70-130	06.20.2020 04:00	**	
1,4-Difluorobenzene	540-36-3	92	%	70-130	06.20.2020 04:00		



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 29 @ 4'** Matrix: Soil Date Received: 06.19.2020 11:15
 Lab Sample Id: 664884-020 Date Collected: 06.18.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 06.19.2020 14:00 Basis: Wet Weight
 Seq Number: 3129538

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1380	4.99	mg/kg	06.19.2020 17:39		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.20.2020 13:00 Basis: Wet Weight
 Seq Number: 3129570

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.21.2020 11:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	59.2	49.8	mg/kg	06.21.2020 11:10		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.21.2020 11:10	U	1
Total TPH	PHC635	59.2	49.8	mg/kg	06.21.2020 11:10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	06.21.2020 11:10	
o-Terphenyl	84-15-1	113	%	70-130	06.21.2020 11:10	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 29 @ 4'**

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-020

Date Collected: 06.18.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:00

Basis: Wet Weight

Seq Number: 3129605

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.20.2020 04:20	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.20.2020 04:20	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.20.2020 04:20	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.20.2020 04:20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.20.2020 04:20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.20.2020 04:20	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.20.2020 04:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	133	%	70-130	06.20.2020 04:20	**	
1,4-Difluorobenzene	540-36-3	98	%	70-130	06.20.2020 04:20		



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 30@ 4'**

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-021

Date Collected: 06.18.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.19.2020 15:25

Basis: Wet Weight

Seq Number: 3129540

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	538	4.97	mg/kg	06.19.2020 18:17	X	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.19.2020 15:00

Basis: Wet Weight

Seq Number: 3129565

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.20.2020 04:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	92.6	50.0	mg/kg	06.20.2020 04:05		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.20.2020 04:05	U	1
Total TPH	PHC635	92.6	50.0	mg/kg	06.20.2020 04:05		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	06.20.2020 04:05	
o-Terphenyl	84-15-1	97	%	70-130	06.20.2020 04:05	



Certificate of Analytical Results 664884

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 30@ 4'**

Matrix: Soil

Date Received: 06.19.2020 11:15

Lab Sample Id: 664884-021

Date Collected: 06.18.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.19.2020 18:15

Basis: Wet Weight

Seq Number: 3129606

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.20.2020 16:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.20.2020 16:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.20.2020 16:45	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.20.2020 16:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.20.2020 16:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.20.2020 16:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.20.2020 16:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	124	%	70-130	06.20.2020 16:45	
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.20.2020 16:45	



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

Conoco #1

Analytical Method: Chloride by EPA 300

Seq Number: 3129538

MB Sample Id: 7705821-1-BLK

Matrix: Solid

LCS Sample Id: 7705821-1-BKS

Prep Method: E300P

Date Prep: 06.19.2020

LCSD Sample Id: 7705821-1-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	254	102	254	102	90-110	0	20	mg/kg	06.19.2020 14:35	

Analytical Method: Chloride by EPA 300

Seq Number: 3129540

MB Sample Id: 7705822-1-BLK

Matrix: Solid

LCS Sample Id: 7705822-1-BKS

Prep Method: E300P

Date Prep: 06.19.2020

LCSD Sample Id: 7705822-1-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	253	101	253	101	90-110	0	20	mg/kg	06.19.2020 18:04	

Analytical Method: Chloride by EPA 300

Seq Number: 3129538

Parent Sample Id: 664884-001

Matrix: Soil

MS Sample Id: 664884-001 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664884-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.07	250	310	121	304	118	90-110	2	20	mg/kg	06.19.2020 14:54	X

Analytical Method: Chloride by EPA 300

Seq Number: 3129538

Parent Sample Id: 664884-011

Matrix: Soil

MS Sample Id: 664884-011 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664884-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	18.1	252	287	107	285	106	90-110	1	20	mg/kg	06.19.2020 16:23	

Analytical Method: Chloride by EPA 300

Seq Number: 3129540

Parent Sample Id: 664787-073

Matrix: Soil

MS Sample Id: 664787-073 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664787-073 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.78	250	314	122	309	120	90-110	2	20	mg/kg	06.19.2020 19:52	X

Analytical Method: Chloride by EPA 300

Seq Number: 3129540

Parent Sample Id: 664884-021

Matrix: Soil

MS Sample Id: 664884-021 S

Prep Method: E300P

Date Prep: 06.19.2020

MSD Sample Id: 664884-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	538	249	771	94	760	89	90-110	1	20	mg/kg	06.19.2020 18:23	X

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
Conoco #1

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129565

MB Sample Id: 7705837-1-BLK

Matrix: Solid

LCS Sample Id: 7705837-1-BKS

Prep Method: SW8015P

Date Prep: 06.19.2020

LCSD Sample Id: 7705837-1-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	883	88	825	83	70-130	7	20	mg/kg	06.19.2020 21:22	
Diesel Range Organics (DRO)	<50.0	1000	908	91	863	86	70-130	5	20	mg/kg	06.19.2020 21:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	83		93		95		70-130	%	06.19.2020 21:22
o-Terphenyl	94		105		112		70-130	%	06.19.2020 21:22

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129570

MB Sample Id: 7705875-1-BLK

Matrix: Solid

LCS Sample Id: 7705875-1-BKS

Prep Method: SW8015P

Date Prep: 06.20.2020

LCSD Sample Id: 7705875-1-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	1190	119	1010	101	70-130	16	20	mg/kg	06.21.2020 03:35	
Diesel Range Organics (DRO)	<50.0	1000	1200	120	1020	102	70-130	16	20	mg/kg	06.21.2020 03:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		85		130		70-130	%	06.21.2020 03:35
o-Terphenyl	133	**	88		127		70-130	%	06.21.2020 03:35

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129565

Matrix: Solid

MB Sample Id: 7705837-1-BLK

Prep Method: SW8015P

Date Prep: 06.19.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	06.19.2020 21:01	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129570

Matrix: Solid

MB Sample Id: 7705875-1-BLK

Prep Method: SW8015P

Date Prep: 06.20.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	06.21.2020 03:16	

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

Conoco #1

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129565

Parent Sample Id: 664787-081

Matrix: Soil

MS Sample Id: 664787-081 S

Prep Method: SW8015P

Date Prep: 06.19.2020

MSD Sample Id: 664787-081 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	839	84	891	89	70-130	6	20	mg/kg	06.19.2020 22:26	
Diesel Range Organics (DRO)	<49.9	997	874	88	865	87	70-130	1	20	mg/kg	06.19.2020 22:26	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	90		86		70-130	%	06.19.2020 22:26
o-Terphenyl	98		96		70-130	%	06.19.2020 22:26

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129570

Parent Sample Id: 664884-001

Matrix: Soil

MS Sample Id: 664884-001 S

Prep Method: SW8015P

Date Prep: 06.20.2020

MSD Sample Id: 664884-001 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	1020	102	968	97	70-130	5	20	mg/kg	06.21.2020 04:31	
Diesel Range Organics (DRO)	<49.9	997	1050	105	998	100	70-130	5	20	mg/kg	06.21.2020 04:31	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	127		123		70-130	%	06.21.2020 04:31
o-Terphenyl	120		113		70-130	%	06.21.2020 04:31

Analytical Method: BTEX by EPA 8021B

Seq Number: 3129605

MB Sample Id: 7705915-1-BLK

Matrix: Solid

LCS Sample Id: 7705915-1-BKS

Prep Method: SW5035A

Date Prep: 06.19.2020

LCSD Sample Id: 7705915-1-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	0.0804	80	0.0807	81	70-130	0	35	mg/kg	06.19.2020 18:48	
Toluene	<0.00200	0.100	0.101	101	0.101	101	70-130	0	35	mg/kg	06.19.2020 18:48	
Ethylbenzene	<0.00200	0.100	0.117	117	0.115	115	70-130	2	35	mg/kg	06.19.2020 18:48	
m,p-Xylenes	<0.00400	0.200	0.237	119	0.233	117	70-130	2	35	mg/kg	06.19.2020 18:48	
o-Xylene	<0.00200	0.100	0.118	118	0.117	117	70-130	1	35	mg/kg	06.19.2020 18:48	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		89		91		70-130	%	06.19.2020 18:48
4-Bromofluorobenzene	113		111		114		70-130	%	06.19.2020 18:48

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

Conoco #1

Analytical Method: BTEX by EPA 8021B

Seq Number: 3129606

MB Sample Id: 7705916-1-BLK

Matrix: Solid

LCS Sample Id: 7705916-1-BKS

Prep Method: SW5035A

Date Prep: 06.19.2020

LCSD Sample Id: 7705916-1-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	0.0818	82	0.0741	74	70-130	10	35	mg/kg	06.20.2020 12:38	
Toluene	<0.00200	0.100	0.100	100	0.0919	92	70-130	8	35	mg/kg	06.20.2020 12:38	
Ethylbenzene	<0.00200	0.100	0.117	117	0.106	106	70-130	10	35	mg/kg	06.20.2020 12:38	
m,p-Xylenes	<0.00400	0.200	0.234	117	0.212	106	70-130	10	35	mg/kg	06.20.2020 12:38	
o-Xylene	<0.00200	0.100	0.118	118	0.107	107	70-130	10	35	mg/kg	06.20.2020 12:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	89		89		86		70-130	%	06.20.2020 12:38
4-Bromofluorobenzene	111		113		105		70-130	%	06.20.2020 12:38

Analytical Method: BTEX by EPA 8021B

Seq Number: 3129605

Parent Sample Id: 664884-001

Matrix: Soil

MS Sample Id: 664884-001 S

Prep Method: SW5035A

Date Prep: 06.19.2020

MSD Sample Id: 664884-001 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	0.0998	0.0685	69	0.0672	67	70-130	2	35	mg/kg	06.19.2020 19:29	X
Toluene	<0.00200	0.0998	0.0883	88	0.0866	87	70-130	2	35	mg/kg	06.19.2020 19:29	
Ethylbenzene	<0.00200	0.0998	0.101	101	0.0977	98	70-130	3	35	mg/kg	06.19.2020 19:29	
m,p-Xylenes	<0.00399	0.200	0.206	103	0.197	99	70-130	4	35	mg/kg	06.19.2020 19:29	
o-Xylene	<0.00200	0.0998	0.104	104	0.100	100	70-130	4	35	mg/kg	06.19.2020 19:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		90		70-130	%	06.19.2020 19:29
4-Bromofluorobenzene	117		112		70-130	%	06.19.2020 19:29

Analytical Method: BTEX by EPA 8021B

Seq Number: 3129606

Parent Sample Id: 664787-011

Matrix: Soil

MS Sample Id: 664787-011 S

Prep Method: SW5035A

Date Prep: 06.19.2020

MSD Sample Id: 664787-011 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	0.0994	0.0692	70	0.0779	78	70-130	12	35	mg/kg	06.20.2020 13:20	
Toluene	<0.00199	0.0994	0.0791	80	0.0881	88	70-130	11	35	mg/kg	06.20.2020 13:20	
Ethylbenzene	<0.00199	0.0994	0.0859	86	0.0965	97	70-130	12	35	mg/kg	06.20.2020 13:20	
m,p-Xylenes	<0.00398	0.199	0.172	86	0.194	97	70-130	12	35	mg/kg	06.20.2020 13:20	
o-Xylene	<0.00199	0.0994	0.0878	88	0.0976	98	70-130	11	35	mg/kg	06.20.2020 13:20	

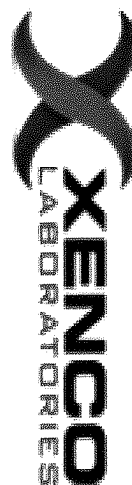
Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	89		92		70-130	%	06.20.2020 13:20
4-Bromofluorobenzene	112		114		70-130	%	06.20.2020 13:20

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

Houston, TX (281) 240-4200, Dallas, TX (214) 502-0300, San Antonio, TX (210) 506-3334
Midland, TX (432) 394-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 792-7550, Carlsbad, NM (505) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6707
Atlanta, GA (770) 449-8800

Work Order No:

125100

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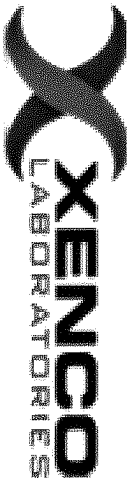
Project Manager:	Lance Crenshaw	Bill to: (if different)	Terranie Fawks
Company Name:	Etech Environmental and Safety	Company Name:	Endeavor
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Livingston, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to: PM@etechenv.com + Client

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

Project Name:		Conoco #1		Turn Around		ANALYSIS REQUEST													Preservative Codes					
Project Number:		12384		Routine: ☐															HN03: HN					
Project Location		Rural Chavez		Rush: ☒															H2S04: H2					
Sampler's Name:		Matthew Grieco		Due Date: ASAP															HCL: HL					
PO #:																			None: NO					
SAMPLE RECEIPT		Temp Blank:		Yes ☐ No ☒		Wet Ice:		Yes ☒ No ☐															NaOH: Na	
Temperature (°C):		29		2.5		Thermometer ID:		J28															MeOH: Me	
Received Intact:		Yes ☒ No ☐				Correction Factor:		-0.1															Zn Acetate+ NaOH: Zn	
Cooler Custody Seals:		Yes ☐ No ☒				Total Containers:																	TAT starts the day received by the lab, if received by 4:30pm	
Sample Custody Seals:		Yes ☐ No ☒																						
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Number of Containers/Preservative Code													Sample Comments	
NW5		Soil		6/17/2020						1/NO X X X X														
NW6		Soil		6/17/2020						1/NO X X X X														
NW7		Soil		6/17/2020						1/NO X X X X														
SW7A		Soil		6/17/2020						1/NO X X X X														
FL18 @ 4'		Soil		6/17/2020				4'		1/NO X X X X														
FL19 @ 4'		Soil		6/17/2020				4'		1/NO X X X X														
FL20 @ 4'		Soil		6/17/2020				4'		1/NO X X X X														
FL21 @ 4'		Soil		6/17/2020				4'		1/NO X X X X														
FL22 @ 4'		Soil		6/17/2020				4'		1/NO X X X X														
FL23 @ 4'		Soil		6/17/2020				4'		1/NO X 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	B	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U											
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.																																	
1631 / 245.1 / 7470 / 7471 : Hg																																	

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	3/30/2018	<i>[Signature]</i>	<i>[Signature]</i>	4/19/20
					1/15



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 (904) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8800

Work Order No:

10041884

Project Manager:	Lance Crenshaw	Bill to: (if different)	Terrance Fawks
Company Name:	Etech Environmental and Safety	Company Name:	Endeavor
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to: PM@etechny.com + Client

Program: ☐ UST/PSI ☐ PRF ☐ Brownfield ☐ RR ☐ Superfund State of Project:	
Reporting Level: ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Conoco #1	Turn Around	
Project Number:	12384	Routine:	☐
Project Location:	Rural Chavez	Rush:	☒
Sampler's Name:	Matthew Grieco	Due Date:	ASAP
PO #:			
SAMPLE RECEIPT Temp Blank: Yes ☒ No ☐ Wet Ice: Yes ☒ No ☐ Temperature (°C): 29.35 Thermometer ID: 1828 Received In tact: Yes ☒ No ☐ Cooler Custody Seals: Yes ☒ No ☐ Correction Factor: -0.1 Sample Custody Seals: Yes ☒ No ☐ Total Containers:			
Sample Identification	Matrix	Date Sampled	Time Sampled
NW8A	Soil	6/18/2020	
SW8	Soil	6/18/2020	
SW9	Soil	6/18/2020	
WWA	Soil	6/18/2020	
FL24 @ 4'	Soil	6/18/2020	4'
FL25 @ 4'	Soil	6/18/2020	4'
FL26 @ 4'	Soil	6/18/2020	4'
FL27 @ 4'	Soil	6/18/2020	4'
FL28 @ 4'	Soil	6/18/2020	4'
FL29 @ 4'	Soil	6/18/2020	4'
		Number of Containers/Preservative Code	
		BTEX (SW 846 8021B)	
		TPH (SW 846 8015M Ext.)	
		Cl- (4500 Cl)	
		ANALYSIS REQUEST	
		Preservative Codes	
		HNO3: HN	
		H2SO4: H2	
		HCL: HL	
		None: NO	
		NaOH: Na	
		MeOH: Me	
		Zn Acetate+ NaOH: Zn	
		TAT starts the day received by the lab, if received by 4:30pm	
		Sample Comments	

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	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																
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
		3:30/6-18			



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 394-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 302-7550, 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:

1004854

www.xenco.com Page 3 of 3

Project Manager:	Lance Crenshaw	Bill to: (if different)	Teffanie Fawks
Company Name:	Etech Environmental and Safety	Company Name:	Endeavor
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to: PM@etechnv.com + Client

Work Order Comments

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

State of Project:

Reporting: Level ☐ Level ☐ PST/UD ☐ TRF ☐ Level ☐

Deliverables: EDD ☐ ADAPT ☐ Other: ☐

[illegible]

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xeno 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 by Xeno. A minimum charge of \$750.00 will be applied to each project and a charge of \$5 for each sample submitted to Xeno, 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>[Signature]</i>	1 <i>[Signature]</i>	3-30-18	2 <i>[Signature]</i>	2 <i>[Signature]</i>	10/19/20
3			4		
5			6		11/5



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 06.19.2020 11.15.00 AM

Work Order #: 664884

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	2.5	
#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	BTEX was in bulk container
#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: 06.22.2020

Checklist reviewed by:



Jessica Kramer

Date: 06.22.2020



Certificate of Analysis Summary 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #1

Project Id: 12384
Contact: PM
Project Location: Rural Chavez

Date Received in Lab: Tue 06.23.2020 10:00
Report Date: 06.24.2020 16:06
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	665090-001	665090-002	665090-003	665090-004	665090-005	665090-006
	<i>Field Id:</i>	NW4A	SW6B	FL 13A @4'	FL 14A @4'	FL 15A @4'	FL 16A @4'
	<i>Depth:</i>			4- ft	4- ft	4- ft	4- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	06.16.2020 00:00	06.16.2020 00:00	06.16.2020 00:00	06.16.2020 00:00	06.16.2020 00:00	06.16.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	06.23.2020 16:30	06.23.2020 16:30	06.23.2020 16:30	06.23.2020 16:30	06.23.2020 16:30	06.23.2020 16:30
	<i>Analyzed:</i>	06.24.2020 04:53	06.24.2020 05:14	06.24.2020 05:34	06.24.2020 05:54	06.24.2020 06:15	06.24.2020 06:35
	<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	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399	<0.00399 0.00399	<0.00402 0.00402	<0.00398 0.00398	<0.00399 0.00399	<0.00399 0.00399
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	06.23.2020 15:25	06.23.2020 15:25	06.23.2020 15:25	06.23.2020 16:10	06.23.2020 16:10	06.23.2020 16:10
	<i>Analyzed:</i>	06.23.2020 15:45	06.23.2020 17:15	06.23.2020 18:37	06.23.2020 19:34	06.23.2020 19:40	06.23.2020 19:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		527 5.00	294 5.00	2370 24.8	3080 25.2	5030 49.8	5420 50.0
TPH By SW8015 Mod	<i>Extracted:</i>	06.23.2020 11:00	06.23.2020 11:00	06.23.2020 11:00	06.23.2020 11:00	06.23.2020 11:00	06.23.2020 11:00
	<i>Analyzed:</i>	06.23.2020 16:03	06.23.2020 16:24	06.23.2020 16:46	06.23.2020 17:29	06.23.2020 17:51	06.23.2020 18:12
	<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	<50.0 50.0	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<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)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0
Total TPH		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Conoco #1

Project Id: 12384
Contact: PM
Project Location: Rural Chavez

Date Received in Lab: Tue 06.23.2020 10:00
Report Date: 06.24.2020 16:06
Project Manager: Jessica Kramer

Analysis Requested	Lab Id: 665090-007 Field Id: FL 17A @4' Depth: 4- ft Matrix: SOIL Sampled: 06.16.2020 00:00					
BTEX by EPA 8021B	Extracted: 06.23.2020 16:30 Analyzed: 06.24.2020 06:56 Units/RL: mg/kg RL					
Benzene	<0.00200 0.00200					
Toluene	<0.00200 0.00200					
Ethylbenzene	<0.00200 0.00200					
m,p-Xylenes	<0.00401 0.00401					
o-Xylene	<0.00200 0.00200					
Total Xylenes	<0.00200 0.00200					
Total BTEX	<0.00200 0.00200					
Chloride by EPA 300	Extracted: 06.23.2020 16:10 Analyzed: 06.23.2020 19:53 Units/RL: mg/kg RL					
Chloride	4540 25.3					
TPH By SW8015 Mod	Extracted: 06.23.2020 11:00 Analyzed: 06.23.2020 18:34 Units/RL: mg/kg RL					
Gasoline Range Hydrocarbons (GRO)	<49.9 49.9					
Diesel Range Organics (DRO)	<49.9 49.9					
Motor Oil Range Hydrocarbons (MRO)	<49.9 49.9					
Total TPH	<49.9 49.9					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager



Analytical Report 665090

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Conoco #1

12384

06.24.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-34), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.24.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: XENCO Report No(s): **665090**

Conoco #1

Project Address: Rural Chavez

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 XENCO Report Number(s) 665090. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 665090 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'. The signature is written in a cursive, flowing style.

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 665090****Etech Environmental & Safety Solution, Inc, Midland, TX**

Conoco #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NW4A	S	06.16.2020 00:00		665090-001
SW6B	S	06.16.2020 00:00		665090-002
FL 13A @4'	S	06.16.2020 00:00	4 ft	665090-003
FL 14A @4'	S	06.16.2020 00:00	4 ft	665090-004
FL 15A @4'	S	06.16.2020 00:00	4 ft	665090-005
FL 16A @4'	S	06.16.2020 00:00	4 ft	665090-006
FL 17A @4'	S	06.16.2020 00:00	4 ft	665090-007



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Conoco #1

Project ID: 12384
Work Order Number(s): 665090

Report Date: 06.24.2020
Date Received: 06.23.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **NW4A**
Lab Sample Id: 665090-001

Matrix: Soil
Date Collected: 06.16.2020 00:00

Date Received: 06.23.2020 10:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.23.2020 15:25

Basis: Wet Weight

Seq Number: 3129772

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	527	5.00	mg/kg	06.23.2020 15:45		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.23.2020 11:00

Basis: Wet Weight

Seq Number: 3129788

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.23.2020 16:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.23.2020 16:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.23.2020 16:03	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.23.2020 16:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	06.23.2020 16:03	
o-Terphenyl	84-15-1	102	%	70-130	06.23.2020 16:03	



Certificate of Analytical Results 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **NW4A**
Lab Sample Id: 665090-001

Matrix: Soil
Date Collected: 06.16.2020 00:00

Date Received: 06.23.2020 10:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.23.2020 16:30

Basis: Wet Weight

Seq Number: 3129825

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.24.2020 04:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.24.2020 04:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.24.2020 04:53	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.24.2020 04:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.24.2020 04:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.24.2020 04:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.24.2020 04:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	06.24.2020 04:53		
1,4-Difluorobenzene	540-36-3	101	%	70-130	06.24.2020 04:53		



Certificate of Analytical Results 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW6B**
Lab Sample Id: 665090-002

Matrix: Soil
Date Collected: 06.16.2020 00:00

Date Received: 06.23.2020 10:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.23.2020 15:25

Basis: Wet Weight

Seq Number: 3129772

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	294	5.00	mg/kg	06.23.2020 17:15		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.23.2020 11:00

Basis: Wet Weight

Seq Number: 3129788

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.23.2020 16:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.23.2020 16:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.23.2020 16:24	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.23.2020 16:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	06.23.2020 16:24	
o-Terphenyl	84-15-1	103	%	70-130	06.23.2020 16:24	



Certificate of Analytical Results 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **SW6B**
Lab Sample Id: 665090-002

Matrix: Soil
Date Collected: 06.16.2020 00:00

Date Received: 06.23.2020 10:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.23.2020 16:30

Basis: Wet Weight

Seq Number: 3129825

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.24.2020 05:14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.24.2020 05:14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.24.2020 05:14	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.24.2020 05:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.24.2020 05:14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.24.2020 05:14	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.24.2020 05:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	06.24.2020 05:14	
1,4-Difluorobenzene	540-36-3	101	%	70-130	06.24.2020 05:14	



Certificate of Analytical Results 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 13A @4'**

Matrix: Soil

Date Received: 06.23.2020 10:00

Lab Sample Id: 665090-003

Date Collected: 06.16.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.23.2020 15:25

Basis: Wet Weight

Seq Number: 3129772

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2370	24.8	mg/kg	06.23.2020 18:37		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.23.2020 11:00

Basis: Wet Weight

Seq Number: 3129788

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.23.2020 16:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.23.2020 16:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.23.2020 16:46	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.23.2020 16:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	06.23.2020 16:46	
o-Terphenyl	84-15-1	102	%	70-130	06.23.2020 16:46	



Certificate of Analytical Results 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 13A @4'**

Matrix: Soil

Date Received: 06.23.2020 10:00

Lab Sample Id: 665090-003

Date Collected: 06.16.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.23.2020 16:30

Basis: Wet Weight

Seq Number: 3129825

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.24.2020 05:34	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.24.2020 05:34	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.24.2020 05:34	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.24.2020 05:34	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.24.2020 05:34	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.24.2020 05:34	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.24.2020 05:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	06.24.2020 05:34	
4-Bromofluorobenzene	460-00-4	102	%	70-130	06.24.2020 05:34	



Certificate of Analytical Results 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 14A @4'**

Matrix: Soil

Date Received: 06.23.2020 10:00

Lab Sample Id: 665090-004

Date Collected: 06.16.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.23.2020 16:10

Basis: Wet Weight

Seq Number: 3129776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3080	25.2	mg/kg	06.23.2020 19:34		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.23.2020 11:00

Basis: Wet Weight

Seq Number: 3129788

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.23.2020 17:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.23.2020 17:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.23.2020 17:29	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.23.2020 17:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	06.23.2020 17:29	
o-Terphenyl	84-15-1	102	%	70-130	06.23.2020 17:29	



Certificate of Analytical Results 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 14A @4'**

Matrix: Soil

Date Received: 06.23.2020 10:00

Lab Sample Id: 665090-004

Date Collected: 06.16.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.23.2020 16:30

Basis: Wet Weight

Seq Number: 3129825

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.24.2020 05:54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.24.2020 05:54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.24.2020 05:54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.24.2020 05:54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.24.2020 05:54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.24.2020 05:54	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.24.2020 05:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	06.24.2020 05:54		
4-Bromofluorobenzene	460-00-4	106	%	70-130	06.24.2020 05:54		



Certificate of Analytical Results 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 15A @4'**

Matrix: Soil

Date Received: 06.23.2020 10:00

Lab Sample Id: 665090-005

Date Collected: 06.16.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.23.2020 16:10

Basis: Wet Weight

Seq Number: 3129776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5030	49.8	mg/kg	06.23.2020 19:40		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.23.2020 11:00

Basis: Wet Weight

Seq Number: 3129788

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.23.2020 17:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.23.2020 17:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.23.2020 17:51	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.23.2020 17:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	06.23.2020 17:51	
o-Terphenyl	84-15-1	104	%	70-130	06.23.2020 17:51	



Certificate of Analytical Results 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 15A @4'**

Matrix: Soil

Date Received: 06.23.2020 10:00

Lab Sample Id: 665090-005

Date Collected: 06.16.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.23.2020 16:30

Basis: Wet Weight

Seq Number: 3129825

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.24.2020 06:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.24.2020 06:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.24.2020 06:15	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.24.2020 06:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.24.2020 06:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.24.2020 06:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.24.2020 06:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	06.24.2020 06:15		
1,4-Difluorobenzene	540-36-3	101	%	70-130	06.24.2020 06:15		



Certificate of Analytical Results 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 16A @4'**

Matrix: Soil

Date Received: 06.23.2020 10:00

Lab Sample Id: 665090-006

Date Collected: 06.16.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.23.2020 16:10

Basis: Wet Weight

Seq Number: 3129776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5420	50.0	mg/kg	06.23.2020 19:47		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.23.2020 11:00

Basis: Wet Weight

Seq Number: 3129788

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.23.2020 18:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.23.2020 18:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.23.2020 18:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.23.2020 18:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	06.23.2020 18:12	
o-Terphenyl	84-15-1	105	%	70-130	06.23.2020 18:12	



Certificate of Analytical Results 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 16A @4'**

Matrix: Soil

Date Received: 06.23.2020 10:00

Lab Sample Id: 665090-006

Date Collected: 06.16.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.23.2020 16:30

Basis: Wet Weight

Seq Number: 3129825

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.24.2020 06:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.24.2020 06:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.24.2020 06:35	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.24.2020 06:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.24.2020 06:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.24.2020 06:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.24.2020 06:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	06.24.2020 06:35		
4-Bromofluorobenzene	460-00-4	103	%	70-130	06.24.2020 06:35		



Certificate of Analytical Results 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 17A @4'**

Matrix: Soil

Date Received: 06.23.2020 10:00

Lab Sample Id: 665090-007

Date Collected: 06.16.2020 00:00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.23.2020 16:10

Basis: Wet Weight

Seq Number: 3129776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4540	25.3	mg/kg	06.23.2020 19:53		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.23.2020 11:00

Basis: Wet Weight

Seq Number: 3129788

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.23.2020 18:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.23.2020 18:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.23.2020 18:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.23.2020 18:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	06.23.2020 18:34	
o-Terphenyl	84-15-1	103	%	70-130	06.23.2020 18:34	



Certificate of Analytical Results 665090

Etech Environmental & Safety Solution, Inc, Midland, TX

Conoco #1

Sample Id: **FL 17A @4'**

Matrix: Soil

Date Received: 06.23.2020 10:00

Lab Sample Id: 665090-007

Date Collected: 06.16.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.23.2020 16:30

Basis: Wet Weight

Seq Number: 3129825

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.24.2020 06:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.24.2020 06:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.24.2020 06:56	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.24.2020 06:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.24.2020 06:56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.24.2020 06:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.24.2020 06:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	06.24.2020 06:56		
4-Bromofluorobenzene	460-00-4	103	%	70-130	06.24.2020 06:56		



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

Conoco #1

Analytical Method: Chloride by EPA 300

Seq Number: 3129772

MB Sample Id: 7706028-1-BLK

Matrix: Solid

LCS Sample Id: 7706028-1-BKS

Prep Method: E300P

Date Prep: 06.23.2020

LCSD Sample Id: 7706028-1-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	256	102	257	103	90-110	0	20	mg/kg	06.23.2020 15:32	

Analytical Method: Chloride by EPA 300

Seq Number: 3129772

MB Sample Id: 7706029-1-BLK

Matrix: Solid

LCS Sample Id: 7706029-1-BKS

Prep Method: E300P

Date Prep: 06.23.2020

LCSD Sample Id: 7706029-1-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	253	101	253	101	90-110	0	20	mg/kg	06.23.2020 19:02	

Analytical Method: Chloride by EPA 300

Seq Number: 3129772

Parent Sample Id: 665090-001

Matrix: Soil

MS Sample Id: 665090-001 S

Prep Method: E300P

Date Prep: 06.23.2020

MSD Sample Id: 665090-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	527	250	760	93	775	99	90-110	2	20	mg/kg	06.23.2020 15:52	

Analytical Method: Chloride by EPA 300

Seq Number: 3129772

Parent Sample Id: 665090-002

Matrix: Soil

MS Sample Id: 665090-002 S

Prep Method: E300P

Date Prep: 06.23.2020

MSD Sample Id: 665090-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	294	250	562	107	544	100	90-110	3	20	mg/kg	06.23.2020 17:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3129772

Parent Sample Id: 665093-001

Matrix: Solid

MS Sample Id: 665093-001 S

Prep Method: E300P

Date Prep: 06.23.2020

MSD Sample Id: 665093-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.51	248	269	106	267	105	90-110	1	20	mg/kg	06.23.2020 19:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3129772

Parent Sample Id: 665093-007

Matrix: Solid

MS Sample Id: 665093-007 S

Prep Method: E300P

Date Prep: 06.23.2020

MSD Sample Id: 665093-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.96	248	258	104	257	104	90-110	0	20	mg/kg	06.23.2020 20:50	

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

Conoco #1

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129788

MB Sample Id: 7706004-1-BLK

Matrix: Solid

LCS Sample Id: 7706004-1-BKS

Prep Method: SW8015P

Date Prep: 06.23.2020

LCSD Sample Id: 7706004-1-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	883	88	851	85	70-130	4	20	mg/kg	06.23.2020 12:04	
Diesel Range Organics (DRO)	<50.0	1000	870	87	867	87	70-130	0	20	mg/kg	06.23.2020 12:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		110		106		70-130	%	06.23.2020 12:04
o-Terphenyl	103		105		99		70-130	%	06.23.2020 12:04

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129788

Matrix: Solid

Prep Method: SW8015P

Date Prep: 06.23.2020

MB Sample Id: 7706004-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	06.23.2020 11:43	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3129788

Matrix: Soil

Prep Method: SW8015P

Date Prep: 06.23.2020

Parent Sample Id: 665085-001

MS Sample Id: 665085-001 S

MSD Sample Id: 665085-001 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	840	84	844	84	70-130	0	20	mg/kg	06.23.2020 13:09	
Diesel Range Organics (DRO)	<49.9	997	872	87	881	88	70-130	1	20	mg/kg	06.23.2020 13:09	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		111		70-130	%	06.23.2020 13:09
o-Terphenyl	103		102		70-130	%	06.23.2020 13:09

Analytical Method: BTEX by EPA 8021B

Seq Number: 3129825

Matrix: Solid

Prep Method: SW5035A

Date Prep: 06.23.2020

MB Sample Id: 7706071-1-BLK

LCS Sample Id: 7706071-1-BKS

LCSD Sample Id: 7706071-1-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	0.0972	97	0.0960	96	70-130	1	35	mg/kg	06.24.2020 02:09	
Toluene	<0.00200	0.100	0.0900	90	0.0905	91	70-130	1	35	mg/kg	06.24.2020 02:09	
Ethylbenzene	<0.00200	0.100	0.0961	96	0.0957	96	70-130	0	35	mg/kg	06.24.2020 02:09	
m,p-Xylenes	<0.00400	0.200	0.193	97	0.193	97	70-130	0	35	mg/kg	06.24.2020 02:09	
o-Xylene	<0.00200	0.100	0.0976	98	0.0974	97	70-130	0	35	mg/kg	06.24.2020 02:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		99		98		70-130	%	06.24.2020 02:09
4-Bromofluorobenzene	101		98		98		70-130	%	06.24.2020 02:09

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
Conoco #1

Analytical Method: BTEX by EPA 8021B

Seq Number: 3129825

Parent Sample Id: 664998-035

Matrix: Soil

MS Sample Id: 664998-035 S

Prep Method: SW5035A

Date Prep: 06.23.2020

MSD Sample Id: 664998-035 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	0.0801	80	0.0885	89	70-130	10	35	mg/kg	06.24.2020 02:50	
Toluene	0.000815	0.0996	0.0832	83	0.0833	82	70-130	0	35	mg/kg	06.24.2020 02:50	
Ethylbenzene	<0.00199	0.0996	0.0841	84	0.0756	76	70-130	11	35	mg/kg	06.24.2020 02:50	
m,p-Xylenes	<0.00398	0.199	0.174	87	0.148	74	70-130	16	35	mg/kg	06.24.2020 02:50	
o-Xylene	<0.00199	0.0996	0.0866	87	0.0714	71	70-130	19	35	mg/kg	06.24.2020 02:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		98		70-130	%	06.24.2020 02:50
4-Bromofluorobenzene	107		100		70-130	%	06.24.2020 02:50

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

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) 888-3199, 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:

1015090

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Project Manager:	Lance Crenshaw	Bill to: (if different)	Terranie Fawks
Company Name:	Etech Environmental and Safety	Company Name:	Endeavor
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to: PM@etechnv.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:	Conoco #1	Turn Around	
Project Number:	12384	Routine:	☐
Project Location:	Rural Chavez	Rush:	☒
Sampler's Name:	Matthew Grieco	Due Date: ASAP	
PO #:			

SAMPLE RECEIPT	
Temperature (°C):	Temp Blank: Yes ☒ No ☐ Thermometer ID: 1015
Received In tact:	Yes ☒ No ☐
Cooler Custody Seals:	Yes ☒ No ☐ Correction Factor: 1.00
Sample Custody Seals:	Yes ☒ No ☐ Total Containers: 101

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	ANALYSIS REQUEST	Preservative Codes
NW4A	Soil	6/16/2020			1/NO	X	X
SW6B	Soil	6/16/2020			1/NO	X	X
FL13A @ 4'	Soil	6/16/2020		4'	1/NO	X	X
FL14A @ 4'	Soil	6/16/2020		4'	1/NO	X	X
FL15A @ 4'	Soil	6/16/2020		4'	1/NO	X	X
FL16 @ 4'	Soil	6/16/2020		4'	1/NO	X	X
FL17 @ 4'	Soil	6/16/2020		4'	1/NO	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		TCPLP / SPLP 6010: 8RCRA		Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U												

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. [Signature]	2. [Signature]	6/17/2020	3. [Signature]	4. [Signature]	6/17/2020
5. [Signature]	6. [Signature]				

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 06.23.2020 10.00.00 AM

Work Order #: 665090

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.5
#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: 06.23.2020

Checklist reviewed by:



Jessica Kramer

Date: 06.23.2020

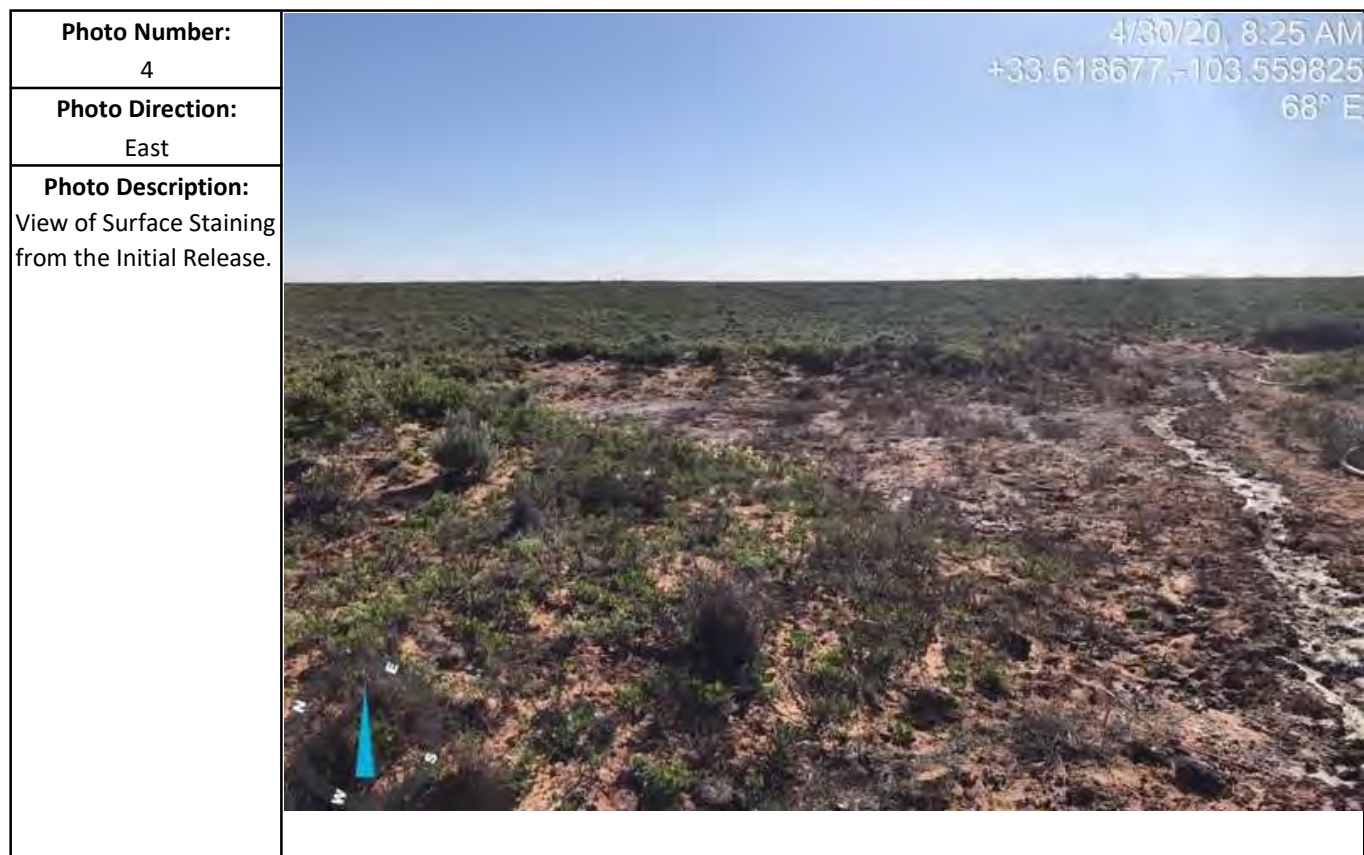
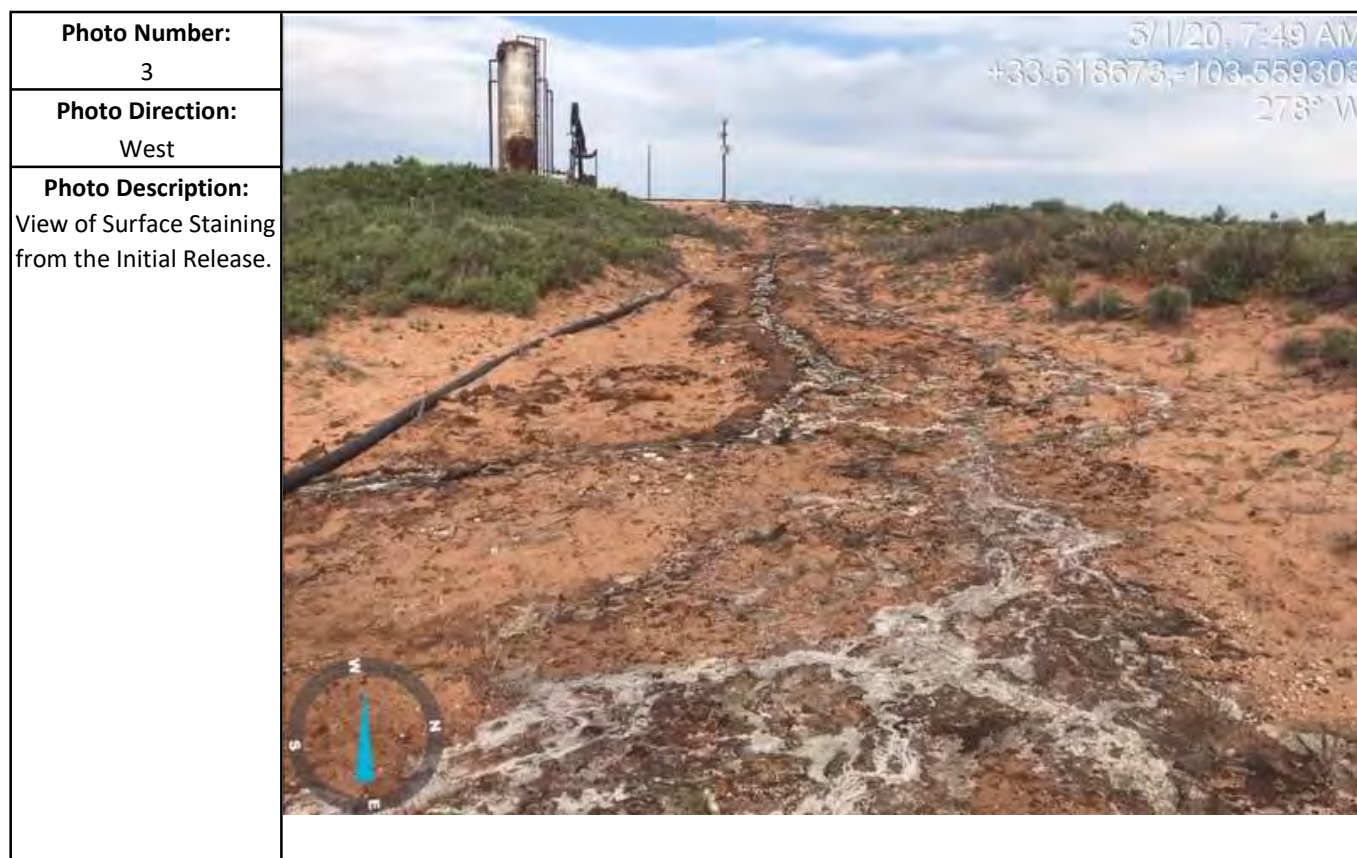
Appendix D

Photographic Log

Photographic Log



Photographic Log



Photographic Log

Photo Number: 5	 Jun 15, 2020 at 10:02:11 AM +33.618635,-103.559439 ±5.00m 174° S
Photo Direction: South	
Photo Description: Southern area of excavation.	

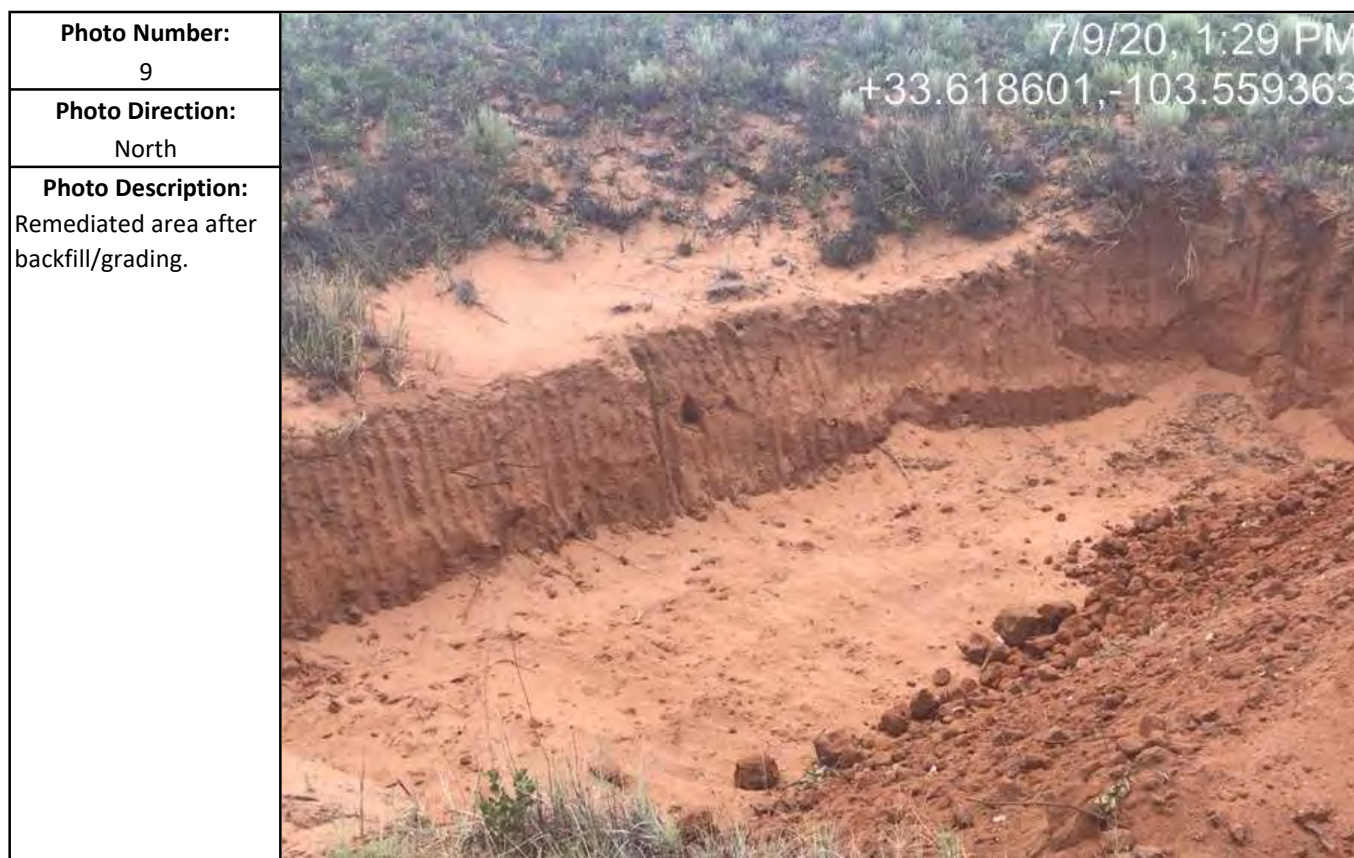
Photo Number: 6	 Jun 15, 2020 at 1:31:18 PM +33.618466,-103.560134 ±5.00m 209° SE
Photo Direction: Southeast	
Photo Description: Spoils pile with loader and belly dump.	

Photographic Log

Photo Number: 7	 Jun 16, 2020 at 11:48:31 AM +33.618694,-103.559728 ±10.00m 68° E
Photo Direction: East	
Photo Description: Eastern area of excavation.	

Photo Number: 8	 Jun 16, 2020 at 11:49:05 AM +33.618683,-103.559485 ±5.00m 286° W
Photo Direction: West	
Photo Description: Western area of excavation.	

Photographic Log



Photographic Log

