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

)

Page 1 of 101

Incident ID	NRM2030426190
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. Marienfeld, Suite 200, Midland, TX 79706		

### **Location of Release Source**

Latitude 33.622009

Longitude -103.569111

(NAD 83 in decimal degrees to 5 decimal places)

Site Name State 22 Water Transfer Line	Site Type Battery
Date Release Discovered 6/7/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
G	16	8S	33E	Chaves

Surface Owner: X State Federal Tribal Private (Name:

# 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) 0.2	Volume Recovered (bbls) 0.1
Produced Water	Volume Released (bbls) 18.1	Volume Recovered (bbls) 7.9
	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

Busted line underground coming from a nearby water tank was transferring water to swd.

	2020 2:48:34 PM of New Mexico	Incident ID	NRM2030426190
2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
Was this a major	If YES, for what reason(s) does the responsible par	ty consider this a major release?	•
release as defined by 19.15.29.7(A) NMAC?	IT TES, for what reason(3) does the responsible par		
🗌 Yes 🖾 No			
	notice given to the OCD? By whom? To whom? Wh	nen and by what means (phone, o	email, etc)?
If YES, was immediate n	touce given to the OCD: By whom? To whom? Wh		
If YES, was immediate r	To the ocd? By whom? To whom? W		
If YES, was immediate r	To whom ? By whom? To whom? W		
If YES, was immediate r			

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

 $\boxtimes$  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 not 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:	Teffanie Fawks	Title:HSE Environmental Field Tech	
Signature:	Hawks	Date: 10/20/00	
email: teffanies	@eeronline.com	Telephone: _432-262-4203	
OCD Only			
	Cristina Eads	Date: 10/22/2020	

State 22 Water Trans. une



ID	Area (Ft <sup>2</sup> )	Depth (Ft)	%Porosity/ Saturation	Volume (Ft <sup>3</sup> )	Volume (bbls)	
Area 1	465	0.50	0.15	34.88	6.2	
Area 2	1,042	0.08	0.15	13.03	2.3	
Area 3	3,069	0.02	0.15	9.59	1.7	
Volume of Liquid Rem	•				10	bbls
	ne Recovered:				8	bbls
1	Total Volume:				18	bbls
Oil (/	Approximate)				1.0	%
		Volume o	f Oil Released:		0.2	bbls

Volume of Water Released:

Volume of Oil Recovered:

Volume of Water Recovered:

18.1

0.08

7.9

bbls

Incident IDNRM2030426190District RPFacility IDApplication ID

# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>~132</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 <b>not</b> 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 <sup>1</sup>/<sub>2</sub>-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.

Page 3

Received by OCD: 10/22/	2020 2:48:34 PM of New Mexico			Page 5 of
orm C-141			Incident ID	NRM2030426190
ige 4	Oil Conservation Divisio	on	District RP	
			Facility ID	
			Application ID	
regulations all operators are public health or the environing failed to adequately investig	uks	notifications and perform c the OCD does not relieve the threat to groundwater, surfa	orrective actions for rele e operator of liability sh ace water, human health liance with any other fe ntal Technician	eases which may endanger ould their operations have or the environment. In
OCD Only				
Received by: Cristina	Eads	Date: <u>10/</u> 2	22/2020	

State 22 Water Trans.

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Received by OCD: 10/22/2020 2:48:34 PM Suite of New Mexico

Page 5

Oil Conservation Division

		Page 6 of 101
Incident ID	NRM2030426190	
District RP		
Facility ID		
Application ID		

State 22 Water Transfer

# **Remediation Plan**

<u>Remediation Plan Checklist</u> : Each of the following items must be included in the plan.	
<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation points</li> <li>Estimated volume of material to be remediated</li> </ul>	
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 O	CD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request	st for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where red deconstruction.	emediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health, the environment, or ground	water.
I hereby certify that the information given above is true and complete to the best of my knowledge rules and regulations all operators are required to report and/or file certain release notifications and which may endanger public health or the environment. The acceptance of a C-141 report by the liability should their operations have failed to adequately investigate and remediate contamination surface water, human health or the environment. In addition, OCD acceptance of a C-141 report responsibility for compliance with any other federal, state, or local laws and/or regulations.	nd perform corrective actions for releases OCD does not relieve the operator of n that pose a threat to groundwater,
Printed Name: Teffanie Fawks Title: Environmental	Technician
Signature: Hawks Date: 10 20 20	
email: teffanies@eeronline.com Telephone: 432-262-42	203
OCD Only	
Received by: Cristina Eads Date: 10/22/2020	-
Approved Approved with Attached Conditions of Approval Denied	Deferral Approved
Signature: Juitande Date: 01/08/2021	

# Site Assessment Report and Proposed Remediation Workplan

# Endeavor Energy Resources, LP State 22 Water Transfer

Chaves County, New Mexico Unit Letter G, Section 16, Township 8 South, Range 33 East Latitude 33.622009 North, Longitude 103.569111 West NMOCD Reference No. pending

Prepared By:

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

Matthew Grieco

20

Joel W. Lowry



Midland • San Antonio • Lubbock • Lovington • Lafayette

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### **TABLE OF CONTENTS**

Section

PROJECT INFORMATION	1.0
SITE CHARACTERIZATION.	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	3.0
INITIAL SITE ASSESSMENT	4.0
PROPOSED REMEDIATION PLAN.	5.0
SAMPLING PLAN.	6.0
TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED	
RESTORATION, RECLAMATION AND RE-VEGETATION PLAN.	8.0
LIMITATIONS	
DISTRIBUTION.	10.0

### FIGURES

Figure 1 - Topographic MapFigure 2 - Aerial Proximity MapFigure 3 - Site & Sample Location Map

### TABLES

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

### APPENDICES

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

# **1.0 PROJECT INFORMATION**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Endeavor Energy Resources, LP, has prepared this Report for the Release Site known as the State 22 Water Transfer. Details of the release are summarized below:

Latitude:	33.62	2009	Longitude:		-103.569111					
Provided GPS are in WGS84 format.										
Site Name:         State 22 Water Transfer         Site Type:         Tank Battery										
Date Release Discover	ed:	6/7/2020	API # (if applica	able):	N/A					
Unit Letter Section Township Range County										
G	16	8S	33E	Chaves						
Surface Owner: X State Federal Tribal Private (Name Nature and Volume of Release										
X Crude Oil	Volume	Released (bbls)	0.2	Volume Recove	ered (bbls)	0.1				
X Produced Water	Volume	Released (bbls)	18.1	Volume Recove	ered (bbls)	7.9				
		ncentration of dissol 1 water > 10,000 mg		X Yes	No N	[/A				
Condensate	Volume	Released (bbls)		Volume Recove	ered (bbls)					
Natural Gas	Volume	Released (Mcf)		Volume Recove	ered (Mcf)					
Other (describe)	Volume/	Weight Released		Volume/Weight	Recovered					
Cause of Release: Busted line underground coming from a nearby water tank was transferring water to swd. Initial Response										
X The source of the	release has		I							
X The impacted area			an health and the env	vironment						
		-			er containment	devices				
X Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices										

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

# 2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	~13	32 Ft
Did the release impact groundwater or surface water?	Yes	X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes	X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	Yes	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes	X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	X No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	Yes	X 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:

	<b>Closure Criteria for Soil I</b>	mpacted by a Release	
Probable Depth to Groundwater	Constituent	Method	Limit
	Chloride	EPA 300.0 or SM4500 Cl B	20000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
~132 Ft	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 INITIAL SITE ASSESSMENT

On June 11, 2020, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores 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, eleven (11) delineation soil samples (SH @ Surf., SH @ 1', NH @ Surf., NH @ 1', WHA @ 1', V2 @ 1' R, V1 @ 2.5' R, V3 @ 2' R, EHB @ Surf., and EHB @ 1') were submitted to the laboratory for analysis of BTEX, TPH and/or Chloride. Based on laboratory analytical results, the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined. Due to hand auger refusal, the vertical extent of affected soil was not adequately defined.

On June 24, 2020, Etech returned to the site to complete the initial site assessment. A series of test trenches were advanced within the release margins in an effort to determine the vertical extent of soil impacts. Field soil samples were collected from the test trenches 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, five (5) delineation soil samples (V1 @ 3', V1 @ 4', V2 @ 2', V3 @ 3', V3 @ 4') were submitted to the laboratory for analysis of BTEX, TPH and/or Chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard beyond 4 Ft. bgs in the areas characterized by sample points V1 and V3, and beyond 2 Ft bgs in the area characterized by sample point V2. The vertical extent of affected soil was adequately defined.

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

### 5.0 **PROPOSED REMEDIATION PLAN**

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Endeavor Energy Resources, LP proposes the following remediation activities designed to advance the Site toward an approved closure:

• Utilizing mechanical equipment, excavate impacted soil affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in the areas characterized by sample points V1 and V3 to a depth of approximately 4 Ft. bgs, and V2 to a depth of approximately 2 Ft. bgs.

• The floor and sidewalls of the excavated area will be advanced until laboratory analytical results indicate impacted soil affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard has been removed.

• Excavated material will be temporarily stockpiled on-site, then transported to an NMOCD-approved disposal facility.

• Upon excavating impacted soil affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard, collect the requisite excavation confirmation soil samples.

• Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted "like" material.

• Excavation backfill will be contoured to match the surrounding topography.

• Upon completion of remediation activities, prepare a Remediation Summary and Site Closure Request detailing remediation activities and the results of confirmation soil samples.

### 6.0 SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear ft. A minimum of one (1) representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every 400 square feet. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

### 7.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed within 90 days of receiving necessary approval(s) of the Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately 600 cubic yards is in need of removal.

### 8.0 **RESTORATION, RECLAMATION AND RE-VEGETATION PLAN**

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be 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 during the first favorable growing season following closure of the site.

### 9.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Report and Proposed Remediation Plan 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.

### **10.0 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

### Hobbs Field Office

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

(Electronic Submission)

# Figure 1 Topographic Map

Received by OCD: 10/22/2020 2:48:34 PM

Page 15 of 101



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# Figure 2 Aerial Proximity Map



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# Figure 3 Site and Sample Location Map



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

					TABI							
	CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL											
	Endeavor Energy Resources, LP											
	State 22 Water Transfer											
	<u>an ai a</u>				IOCD Ref	. #: pendi			1			
	CD Closure C			10	50	-	-	1000	-	2500	20000	
NMOCD	Reclamation	Standard	[	10	50	-	-	-	-	100	600	
				SW 840	5 8021B		SW	7 846 8015M GRO +	Ext.		4500 Cl	
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)	
SH @ Surface	6/11/2020	0'	In-Situ	< 0.00200	0.00203	<49.9	117	117	59.5	177	636	
SH @ 1'	6/11/2020	1'	In-Situ	< 0.00199	< 0.00199	<50.0	115	115	52.6	168	65.1	
NH @ Surface	6/11/2020	0'	In-Situ	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	7.21	
NH @ 1'	6/11/2020	1'	In-Situ	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	<5.01	
WHA @ Surface	6/11/2020	0'	In-Situ	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	<4.97	
WHA @ 1'	6/11/2020	1'	In-Situ	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	<4.99	
V2 @ 1' R	6/11/2020	1'	In-Situ	< 0.00201	0.00277	<49.8	<49.8	<49.8	<49.8	<49.8	14,700	
V1 @ 2.5' R	6/11/2020	2.5'	In-Situ	0.00909	0.434	<50.0	274	274	<50.0	274	1,060	
V3 @ 2' R	6/11/2020	2'	In-Situ	< 0.00201	< 0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	13,300	
EHB @ Surface	6/11/2020	0'	In-Situ	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	47.9	
EHB @ 1'	6/11/2020	1'	In-Situ	< 0.00200	< 0.00200	<49.8	57.9	57.9	<49.8	57.9	35.6	
V1 @ 3'	6/24/2020	3'	In-Situ	< 0.00202	< 0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	4,970	
V1 @ 4'	6/24/2020	4'	In-Situ	< 0.00200	< 0.00200	<50.0	449	449	50.7	500	1,600	
V2 @ 2'	6/24/2020	2'	In-Situ	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	461	
V3 @ 3'	6/24/2020	3'	In-Situ	< 0.00201	< 0.00201	<49.9	151	151	<49.9	151	1,280	
V3 @ 4'	6/24/2020	4'	In-Situ	< 0.00201	< 0.00201	<50.0	92.5	92.5	<50.0	92.5	514	

# Appendix A Depth to Groundwater Information



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### <u>Received by OCD: 10/22/2020 2:48:34 PM</u>

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

A CLW##### in the OD suffix indicates the OD has been replaced	(R=POD replaced, O=orpha	ned,	n	,						-				
& no longer serves a vater right file.)	C=the file closed)	e is		• •				2=NE est to lar	3=SW 4=SE gest) (N	E) IAD83 UTM in m	neters)	(In f	eet)	
		POD		0.0										× .
POD Number	Code	Sub- basin	County	Q Q 64 1			Tws	Rng	х	Y	DistanceDe	othWellDep		/ater lum
CL 00314 POD1		CL	СН		2 2		08S	33E	634611	3716897 🌍	4663	220	157	e
CL 00307 POD1		CL	СН	2 3	34	13	08S	32E	628014	3720298 🌍	4791	195	165	3
										Avera	ge Depth to Wat	er:	161 fee	t
											Minimum De	pth:	157 fee	t
											Maximum Dep	oth:	165 fee	t
Record Count: 2														
UTMNAD83 Radiu	<u>s Search (in</u>	meters	) <u>:</u>											
Easting (X): 632	2727.28		North	ing (N	Y):	3721	164.18	3		Radius: 4830				

6/10/20 9:30 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

#### Received by OCD: 10/22/2020 2:48:34 PM



# New Mexico Office of the State Engineer Point of Diversion Summary

<b>B</b>	<b>Number</b> 00307 POD1	(quarters a (quarters Q64 Q1 2 3	are sm 6 Q4	allest t	o largest	n) Rng	(NAD83 U X 628014	TM in meters) Y 3720298	
Driller License: Driller Name:	1497 COX, TOM W.	Driller Co	ompa	ny:	CO	X DRILI	LING		
Drill Start Date:	05/15/2015	Drill Fini			05	5/15/2013		ig Date:	~
Log File Date:	05/29/2015	PCW Rev						urce:	Shallow
Pump Type:		Pipe Disc	harge	Size	:		Est	timated Yield:	1 GPM
Casing Size:	5.00	Depth We	ell:		19	95 feet	De	pth Water:	165 feet
Wate	er Bearing Stratific	ations:	To	op E	ottom	Descri	ption		
			16	65	175	Sandst	one/Gravel	Conglomerate	
X	Casing Perfo	rations:	То	op E	ottom				
			12	25	195				

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 for any particular purpose of the data.

6/10/20 9:30 AM

POINT OF DIVERSION SUMMARY

#### Received by OCD: 10/22/2020 2:48:34 PM



# New Mexico Office of the State Engineer Point of Diversion Summary

		<b>`</b> 1	ers are 1= ters are sr				(NAD83	3 UTM in meters)	
Well Tag I	POD Number	Q64	Q16 Q4	See	e Tws	Rng	2	X Y	
(	CL 00314 POD1	1	2 2	34	08S	33E	63461	1 3716897	
x Driller Licens	<b>se:</b> 1626	Driller	Comp	any:	TA	YLOR,	ROY ALI	LEN	
Driller Name	: TAYLOR, ROY A.								
Drill Start Da	ate: 04/18/2016	Drill F	'inish D	ate:	0-	4/20/20	16	Plug Date:	
Log File Date	e: 04/29/2016	PCW	Rcv Dat	te:			:	Source:	Shallow
Pump Type:		Pipe D	ischarg	e Siz	e:		]	Estimated Yield	1: 5 GPM
Casing Size:	5.00	Depth	Well:		22	20 feet	1	Depth Water:	157 feet
x V	Water Bearing Stratifica	tions:	Т	op 1	Bottom	Desci	ription		
			1	16	135	Sands	stone/Grav	vel/Conglomerate	e
			1	35	185	Sands	stone/Grav	vel/Conglomerate	e
			1	82	205	Sands	stone/Grav	vel/Conglomerate	e
X	<b>Casing Perfor</b>	ations:	Т	òp	Bottom	1			
			1	60	220	)			

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 any particular purpose of the data.

6/10/20 9:30 AM

POINT OF DIVERSION SUMMARY



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National Water Information System: Web Interface

USGS Water Resources

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Data Category: Groundwater

•

Geographic Area: United States

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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
 Image: Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="

Date	Time	Water- level date- time accuracy	level, feet below land surface	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	А

	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	А	Approved for publication Processing and review completed.								

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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> . Released to Imaging: 1/8/2021 12:33:00 PM



Pag**Received by OCD: 10/22/2020 2:48:34 PM** 0.26 0.23 nadww02 Received by OCD: 10/22/2020 2:48:34 PM

**National Water Information System: Web Interface** 

USGS Water Resources

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Data Category: Groundwater

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ographic Area: United States

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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 ? Water Water ? level, ? ? level, ? ? ? Waterfeet Referenced feet Water-Date Time above Waterlevel vertical

	date- time accuracy	land surface	specific vertical datum	datum	level accuracy	Status	method of measurement	agency	measurement	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	А	Approved for publication Processing and review completed.
Water-level approval status	A	Approved for publication Processing and review completed.

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Accessibility Plug-Ins FOIA Privacy Policies and Notices U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team . Released to Imaging: 1/8/2021 12:33:00 PM



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National Water Information System: Web Interface

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Data Category: Groundwater

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Geographic Area: United States

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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

D

155

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.



		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	А	Approved for publication Processing and review completed.				

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 U.S. Department of the Interior
 | U.S. Geological Survey

 Title:
 Groundwater for USA:
 Water Levels

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

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# Appendix B Field Data and Soil Profile Logs



# Initial Release Assessment Form

p

	and an arrest of the set			Date: 6/24/20		
oject: oject Number:	State 22 Water Transfer 12538	Latitude:	Clean Up Level: 33.622009		Cl-, 2,500 mg/kg TPH	
ject Number.	12558		53.822009	Longitude:	-103.569111	
			Site Diagram			
	5.5	albertad	Man har			
	1 49.		May on			
		sile dia	May ber gom.			
Notes: Har	Calim man	5 your	maerin like	Himilt, Refus	al at 1-2', va	
Notes: Har	I Calille Male	5 your	mgenz 11	ticult. 19/119	al at 1-2, 150	
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			ongenz Iik		n1_at_1-2-,-15-	
	/ <u>Calitu Mutu</u> ~Width:	~Area:	ongennz lik	<i>hiu<u>u</u>lt. IqIng</i> ~Depth:		
·Length:	~Width:	~Area:			<u>21 al 1-2 , 150</u> Yes No	
'Length: -4 Representativ	~Width: ve Pictures of the Affecte	~Area: d Area including			Yes No	
'Length: -4 Representativ lecessary Sampl	~Width: ve Pictures of the Affecte es Field Screened and on	~Area: d Area including lce?			Yes No	
"Length: 3-4 Representativ Necessary Sampl Sample and Field	~Width: ve Pictures of the Affecte	~Area: d Area including lce? Sample Log?			Yes No	

Received by OCD: 10/22/2020 2:48:34 PM




# Sample Log

Date:

6-24-20

Project:	State 22	Wale- 8	Theme 1	12.2
Project Nu	mbor:	TODIACT D	mansfer 4	ne
oject ivu	mber.		Latitu	ide:

Longitude:

Sample ID	PID/Odor	Chloride Conc.	GPS
V1@3	moderate	72604	GF3
V104'	moderate	992	
1202'	none	536	
V3Q3'	mild	1064 TR	
1304'	mild	1692	
V4 OSUNPace	P		
VHQ1	none	4128	
NHQJ	none	1216	24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
VH OZI	Done	1692	
VHQ4	moderate	22604	
1944	none	864	
V5Surface	hone	4128	
V501:	none	128	
	112		
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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
12-0-4 T 4-7-5			
Sample Point = SP #1 @ ## etc			Contract of the second
Floor = FL #1 etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Sidewall = SW #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewali = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Area



Sample Log

6/11/2020

oject Number:	12538	Latitude:	33.622009	Longitude:	-103.569111
Sample ID	PID/Odor		Chloride Conc.		GPS
EH @ Surt	Her	248			
	Hes yes	464			
EH @ 1' SH @ Swf	-	556	and the second second		
SHQI	-	117.4	- 348		
WH @ Surt	-	1744	- 10		
WH @ i	-	7250	4		
NH & Surf	-	168			
NH CI	-	248			
EHA & Surt		> 2504			
EILA PI	-		1- 42Y		
WHA C. Suf		124	- 101		
INIA C SWI		6124			
Vie sut	14.	01 1480	8 L+H		
VZC I'-R	Ves Ves		L+H		
	Yes	12340	L+#		
	125	2900			
	Yes	19368	L+++		
	Vez		L+A		
V3 C Suf	-	8048	L+14		
V3AL		9584	L+H		
V3 @ 2'- R		14004	2+1+		
EHB@ Surt.		196			
EHB@1'		# 464			
			· · · · · · · · · · · · · · · · · · ·		
		š			
Sample Point = SP #1 @ ## etc		Te	est Trench = TT #1 @ ##	-	Resamples= SP #1 @ 5b or SW #1
Floor = FL #1 etc			Refusal = SP #1 @ 4'-R		Stockpile = Stockpile #1
Sidewall = SW #1 etc			to be Deferred = SP #1 @ 4'	In-Situ	
		Jon Intended	to se pereneu - 3r #1 @ 4		GPS Sample Points, Center of Comp

Floor = FL #1 etc

ECH	Inc		Soil Pro	file	1. 1
				Date:	124/20
	22 Water Transfer				100000000
ect Number:	12538	Latitude:	33.622009	Longitude:	-103.569111
th (ft. bgs)			De	conintian	
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# Appendix C Laboratory Analytical Reports



**Project Id:** 12538

Contact: PM

Project Location: Endeavor

# Certificate of Analysis Summary 664362

Etech Environmental & Safety Solution, Inc, Midland, TX

#### Project Name: State 22 Water Transfer

**Date Received in Lab:** Mon 06.15.2020 09:35

**Report Date:** 06.22.2020 16:28

Project Manager: Jessica Kramer

	Lab Id:	664362-0	001	664362-0	02	664362-0	003	664362-0	004	664362-0	005	664362-0	06
Analysis Requested	Field Id:	SH @ Su	rface	SH @	וי	NH @ Surf	ace	NH @ 1		WHA @ Su	rface	WHA @ 1	l'
Analysis Requested	Depth:			1- ft				1- ft				1- ft	
	Matrix:	SOIL											
	Sampled:	06.11.2020	00:00	06.11.2020	00:00	06.11.2020	00:00	06.11.2020	00:00	06.11.2020	00:00	06.11.2020	00:00
BTEX by EPA 8021B	Extracted:	06.19.2020	15:15	06.19.2020	15:15	06.19.2020	15:15	06.19.2020	15:15	06.19.2020	15:15	06.19.2020	15:15
	Analyzed:	06.20.2020	05:09	06.20.2020	05:29	06.20.2020	05:49	06.20.2020	06:10	06.20.2020	06:30	06.20.2020	06:51
	Units/RL:	mg/kg	RL										
Benzene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200
Toluene		0.00203	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200
Ethylbenzene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200
m,p-Xylenes		< 0.00399	0.00399	< 0.00398	0.00398	< 0.00403	0.00403	< 0.00404	0.00404	< 0.00399	0.00399	< 0.00401	0.00401
o-Xylene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200
Total Xylenes		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00202	0.00202	<0.00200	0.00200	< 0.00200	0.00200
Total BTEX		0.00203	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00202	0.00202	<0.00200	0.00200	< 0.00200	0.00200
Chloride by EPA 300	Extracted:	06.15.2020	11:50	06.15.2020	11:50	06.15.2020	11:50	06.15.2020	11:50	06.15.2020	11:50	06.15.2020	11:50
	Analyzed:	06.15.2020	13:34	06.15.2020	13:53	06.15.2020	13:59	06.15.2020	14:18	06.15.2020	14:25	06.15.2020	14:31
	Units/RL:	mg/kg	RL										
Chloride		636	5.05	65.1	4.99	7.21	4.99	<5.01	5.01	<4.97	4.97	<4.99	4.99
TPH By SW8015 Mod	Extracted:	06.16.2020	12:15	06.16.2020	12:15	06.16.2020	12:15	06.16.2020	12:15	06.16.2020	12:15	06.16.2020	12:15
	Analyzed:	06.16.2020	17:39	06.16.2020	18:00	06.16.2020	18:22	06.16.2020	18:43	06.16.2020	19:05	06.16.2020	19:26
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)		117	49.9	115	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		59.5	49.9	52.6	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0
Total TPH		177	49.9	168	50.0	<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

Jession Vermer

Jessica Kramer Project Manager

Page 41 of 101



**Project Id:** 12538

Contact: PM

Project Location: Endeavor

## Certificate of Analysis Summary 664362

Etech Environmental & Safety Solution, Inc, Midland, TX

#### Project Name: State 22 Water Transfer

**Date Received in Lab:** Mon 06.15.2020 09:35

**Report Date:** 06.22.2020 16:28

Project Manager: Jessica Kramer

	Lab Id:	664362-0	007	664362-0	08	664362-0	009	664362-0	010	664362-0	11	
Analysis Requested	Field Id:	V2 @ 1	'R	V1 @ 2.5	5' R	V3 @ 2'1	ર	EHB @ Sur	face	EHB @ 1	.	
Analysis Kequestea	Depth:	1- ft		2.5- ft		2- ft				1- ft		
	Matrix:	SOIL	,	SOIL		SOIL		SOIL	,	SOIL		
	Sampled:	06.11.2020	00:00	06.11.2020	00:00	06.11.2020	00:00	06.11.2020	00:00	06.11.2020	00:00	
BTEX by EPA 8021B	Extracted:	06.19.2020	15:15	06.19.2020	15:15	06.19.2020	15:15	06.19.2020	15:15	06.19.2020	15:15	
	Analyzed:	06.20.2020	07:11	06.20.2020	07:31	06.20.2020	07:52	06.20.2020	10:23	06.20.2020	10:43	
	Units/RL:	mg/kg	RL									
Benzene		< 0.00201	0.00201	0.00909	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	
Toluene		0.00277	0.00201	0.0944	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	
Ethylbenzene		< 0.00201	0.00201	0.168	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	
m,p-Xylenes		< 0.00402	0.00402	0.109	0.00402	< 0.00402	0.00402	< 0.00400	0.00400	< 0.00400	0.00400	
o-Xylene		< 0.00201	0.00201	0.0538	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	
Total Xylenes		< 0.00201	0.00201	0.163	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	
Total BTEX		0.00277	0.00201	0.434	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	
Chloride by EPA 300	Extracted:	06.15.2020	11:50	06.15.2020	11:50	06.15.2020	11:50	06.15.2020	11:50	06.15.2020	15:00	
	Analyzed:	06.15.2020	14:37	06.15.2020	14:44	06.15.2020	14:50	06.15.2020	14:56	06.15.2020	19:38	
	Units/RL:	mg/kg	RL									
Chloride		14700	99.0	1060	4.96	13300	101	47.9	5.02	35.6	4.96	
TPH By SW8015 Mod	Extracted:	06.16.2020	12:15	06.16.2020	12:15	06.16.2020	12:15	06.16.2020	12:15	06.16.2020	12:00	
	Analyzed:	06.16.2020	19:48	06.16.2020	20:09	06.16.2020	20:30	06.16.2020	20:52	06.17.2020	03:46	
	Units/RL:	mg/kg	RL									
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	
Diesel Range Organics (DRO)		<49.8	49.8	274	50.0	<49.9	49.9	<50.0	50.0	57.9	49.8	
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	
Total TPH		<49.8	49.8	274	50.0	<49.9	49.9	<50.0	50.0	57.9	49.8	

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

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

fession kramer

Jessica Kramer Project Manager



# Analytical Report 664362

### for

## **Etech Environmental & Safety Solution, Inc**

**Project Manager: PM** 

State 22 Water Transfer

12538

#### 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): 664362 State 22 Water Transfer Project Address: Endeavor

**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) 664362. 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. 664362 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,

fession kenner

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 664362

### Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SH @ Surface	S	06.11.2020 00:00		664362-001
SH @ 1'	S	06.11.2020 00:00	1 ft	664362-002
NH @ Surface	S	06.11.2020 00:00		664362-003
NH @ 1'	S	06.11.2020 00:00	1 ft	664362-004
WHA @ Surface	S	06.11.2020 00:00		664362-005
WHA @ 1'	S	06.11.2020 00:00	1 ft	664362-006
V2 @ 1' R	S	06.11.2020 00:00	1 ft	664362-007
V1 @ 2.5' R	S	06.11.2020 00:00	2.5 ft	664362-008
V3 @ 2' R	S	06.11.2020 00:00	2 ft	664362-009
EHB @ Surface	S	06.11.2020 00:00		664362-010
EHB @ 1'	S	06.11.2020 00:00	1 ft	664362-011



### **CASE NARRATIVE**

Client Name: Etech Environmental & Safety Solution, Inc Project Name: State 22 Water Transfer

Project ID:12538Work Order Number(s):664362

 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-3129609 BTEX by EPA 8021B Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7705919-1-BKS,7705919-1-BLK,7705919-1-BSD,664211-018 S,664211-018 SD,664362-006,664362-007,664362-008,664362-009,664362-010,664362-005,664362-004,664362-011,664362-002,664362-001,664362-003.

The ending CCV was bias high for Benzene, ethylbenzene, m,p-Xylenes, and o-Xylene. All samples reported did not take hits for those analytes, therefore data was accepted.

IRATORIES



### Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer

Sample Id:SH @ SurfaceLab Sample Id:664362-001		Matrix: Date Colle	Soil ected: 06.11	.2020 00:00		Date Received:06.15	5.2020 09:	35
Analytical Method: Chloride by EP. Tech: CHE	A 300					Prep Method: E300 % Moisture:	)P	
Analyst:CHESeq Number:3129045		Date Prep	: 06.15	.2020 11:50		Basis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	636	5.05		mg/kg	06.15.2020 13:34		1
Analytical Method:TPH By SW801Tech:DVMAnalyst:ARMSeq Number:3129216	15 Mod	Date Prep	: 06.16	.2020 12:15		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Tech: DVM Analyst: ARM	15 Mod Cas Number	Date Prep Result	: 06.16 <b>RL</b>	.2020 12:15	Units	% Moisture:		Dil
Tech:DVMAnalyst:ARMSeq Number:3129216			-	.2020 12:15	Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: DVM Analyst: ARM Seq Number: 3129216 Parameter	Cas Number	Result	RL	.2020 12:15		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DVM Analyst: ARM Seq Number: 3129216 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.9	<b>RL</b> 49.9	.2020 12:15	mg/kg	% Moisture: Basis: Wet Analysis Date 06.16.2020 17:39	Weight Flag	1
Tech: DVM Analyst: ARM Seq Number: 3129216 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <49.9 117	<b>RL</b> 49.9 49.9	.2020 12:15	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 06.16.2020 17:39 06.16.2020 17:39	Weight Flag	1 1
Tech: DVM Analyst: ARM Seq Number: 3129216 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <49.9 117 59.5 177	<b>RL</b> 49.9 49.9 49.9	.2020 12:15 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 06.16.2020 17:39 06.16.2020 17:39 06.16.2020 17:39 06.16.2020 17:39	Weight Flag	1 1 1
Tech:DVMAnalyst:ARMSeq Number:3129216ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <49.9 117 59.5 177	<b>RL</b> 49.9 49.9 49.9 49.9 49.9		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 06.16.2020 17:39 06.16.2020 17:39 06.16.2020 17:39 06.16.2020 17:39	Weight Flag U	1 1 1



#### Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id:	SH @ Surface		Matrix:	Soil		Date Received	d:06.15.2020 09:35
Lab Sample Id:	664362-001		Date Collected	1:06.11.2020 00:00			
Analytical Met	hod: BTEX by EPA 802	21B				Prep Method:	SW5035A
Tech:	KTL					% Moisture:	
Analyst:	KTL		Date Prep:	06.19.2020 15:15		Basis:	Wet Weight
Seq Number:	3129609						
Parameter		Cas Number	Result RL	·	Units	Analysis D	ate Flag Dil

1 ar anicter	Cas i tulliot	i Kesun	<b>KL</b>		Units	Analysis Date	riag	Dii
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.20.2020 05:09	U	1
Toluene	108-88-3	0.00203	0.00200		mg/kg	06.20.2020 05:09		1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.20.2020 05:09	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.20.2020 05:09	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.20.2020 05:09	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.20.2020 05:09	U	1
Total BTEX		0.00203	0.00200		mg/kg	06.20.2020 05:09		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	147	%	70-130	06.20.2020 05:09	**	
1,4-Difluorobenzene		540-36-3	81	%	70-130	06.20.2020 05:09		

ORATORIES



#### Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer

Sample Id: SH @ 1' Lab Sample Id: 664362-002		Matrix: Date Collec	Soil cted: 06.11.2020 00:00		Date Received:06. Sample Depth: 1 ft		:35
Analytical Method: Chloride by EP.	A 300				Prep Method: E30	00P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	06.15.2020 11:50		Basis: We	t Weight	
Seq Number: 3129045							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	65.1	4.99	mg/kg	06.15.2020 13:53		1
Analytical Method:TPH By SW80Tech:DVMAnalyst:ARMSeq Number:3129216	15 Mod	Date Prep:	06.16.2020 12:15		Prep Method: SW % Moisture: Basis: We	8015P t 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 18:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	115	50.0	mg/kg	06.16.2020 18:00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	52.6	50.0	mg/kg	06.16.2020 18:00		1
Total TPH	PHC635	168	50.0	mg/kg	06.16.2020 18:00		1

% Recovery

107

Units

%

Limits

70-130

**Analysis Date** 

06.16.2020 18:00

Flag

.

84-15-1	105	%	70-130	06.16.2020 18:00
	84-15-1	84-15-1 105		

**Cas Number** 

111-85-3

Surrogate

1-Chlorooctane



## **Certificate of Analytical Results 664362**

### Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id:         SH @ 1'           Lab Sample Id:         664362-002	Matrix: Date Collect	Soil ed: 06.11.2020 00:00	Date Receiv Sample Dep	ed:06.15.2020 09:35 th: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: KTL			Prep Methoo % Moisture:	l: SW5035A
Analyst: KTL Seq Number: 3129609	Date Prep:	06.19.2020 15:15	Basis:	Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	06.20.2020 05:29	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.20.2020 05:29	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.20.2020 05:29	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.20.2020 05:29	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.20.2020 05:29	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.20.2020 05:29	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	06.20.2020 05:29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	154	%	70-130	06.20.2020 05:29	**	
1,4-Difluorobenzene		540-36-3	83	%	70-130	06.20.2020 05:29		

**ICO** 



### Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer

Sample Id: Lab Sample Id	<b>NH @ Surface</b> d: 664362-003		Matrix: Date Collec	Soil ted: 06.11.2020 00:00		Date Received	:06.15.2020 09	:35
Analytical Me Tech: Analyst: Seq Number:	ethod: Chloride by EP CHE CHE 3129045	PA 300	Date Prep:	06.15.2020 11:50		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter		Cas Number	Result ]	RL	Units	Analysis Da	te Flag	Dil
Chloride		16887-00-6	7.21	4.99	mg/kg	06.15.2020 13	:59	1
Analytical Me	ethod: TPH By SW80	15 Mod				Prep Method:	SW8015P	
Tech:	DVM					% Moisture:		
Analyst:	ARM		Date Prep:	06.16.2020 12:15		Basis:	Wet Weight	
Seq Number:	3129216							
Parameter		Cas Number	Result	DT	Unite	Analysis Da	to Flag	Dil

Parameter	Cas Numbe	r Kesult	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	98	%	70-130	06.16.2020 18:22		
o-Terphenyl		84-15-1	94	%	70-130	06.16.2020 18:22		

**ICO** 



### Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id: NH @ Surface		Matrix:	Soil		Date Receive	d:06.15.2020	09:35
Lab Sample Id: 664362-003		Date Collecte	ed: 06.11.2020 00:00				
Analytical Method: BTEX by EPA 8	021B				Prep Method:	SW5035A	
Tech: KTL					% Moisture:		
Analyst: KTL		Date Prep:	06.19.2020 15:15		Basis:	Wet Weight	t
Seq Number: 3129609							
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Flag	Dil

						·	0	
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	06.20.2020 05:49	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	06.20.2020 05:49	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	06.20.2020 05:49	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	06.20.2020 05:49	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	06.20.2020 05:49	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	06.20.2020 05:49	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	06.20.2020 05:49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	85	%	70-130	06.20.2020 05:49		
4-Bromofluorobenzene		460-00-4	159	%	70-130	06.20.2020 05:49	**	



## **Certificate of Analytical Results 664362**

### Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer

Sample Id: <b>NH @ 1'</b> Lab Sample Id: 664362-004		Matrix: Date Colle	Soil ected: 06.11.2020 00:00	)	Date Received Sample Depth		20 09:3	5
Analytical Method: Chloride by EPA	A 300				Prep Method:	E300P		
Tech: CHE					% Moisture:			
Analyst: CHE		Date Prep	: 06.15.2020 11:50	)	Basis:	Wet Wei	ight	
Seq Number: 3129045								
Parameter	Cas Number	Result	RL	Units	Analysis Da	ate Fl	ag	Dil
Chloride	16887-00-6	<5.01	5.01	mg/kg	06.15.2020 14	4:18 U	J	1

Analytical Method: TPH By SW801	5 Mod					Prep Method: S	W8015P	
Tech: DVM						% Moisture:		
Analyst: ARM		Date P	rep: 06	5.16.2020 12:15		Basis: W	et Weight	
Seq Number: 3129216								
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	% Recover	y Units	Limits	Analysis Dat	e Flag	
1-Chlorooctane		111-85-3	104	%	70-130	06.16.2020 18:	43	
o-Terphenyl		84-15-1	101	%	70-130	06.16.2020 18:	43	



## **Certificate of Analytical Results 664362**

### Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id:         NH @ 1'           Lab Sample Id:         664362-004	Matrix: Date Collect	Soil ed: 06.11.2020 00:00	Date Receive Sample Dept	ed:06.15.2020 09:35 th: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: KTL			Prep Method % Moisture:	l: SW5035A
Analyst: KTL Seq Number: 3129609	Date Prep:	06.19.2020 15:15	Basis:	Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	06.20.2020 06:10	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	06.20.2020 06:10	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	06.20.2020 06:10	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	06.20.2020 06:10	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	06.20.2020 06:10	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	06.20.2020 06:10	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	06.20.2020 06:10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	82	%	70-130	06.20.2020 06:10		
4-Bromofluorobenzene		460-00-4	173	%	70-130	06.20.2020 06:10	**	



## **Certificate of Analytical Results 664362**

### Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer

Sample Id: Lab Sample Id	<b>WHA @ Surface</b> d: 664362-005		Matrix: Date Collect	Soil red: 06.11.2020 00:00		Date Received:0	6.15.2020 09	:35
Analytical Me Tech: Analyst: Seq Number:	ethod: Chloride by EPA CHE CHE 3129045	A 300	Date Prep:	06.15.2020 11:50		Prep Method: E % Moisture: Basis: W	300P Vet Weight	
Parameter		Cas Number	Result F	8L	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<4.97	4.97	mg/kg	06.15.2020 14:2	5 U	1
Analytical Me Tech: Analyst:	ethod: TPH By SW801 DVM ARM	5 Mod	Date Prep:	06.16.2020 12:15		Prep Method: S % Moisture: Basis: V	W8015P Vet Weight	
Seq Number:	3129216	Cog Nambor	Domit T					D'I

Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
PHC610	<49.9	49.9		mg/kg	06.16.2020 19:05	U	1
C10C28DRO	<49.9	49.9		mg/kg	06.16.2020 19:05	U	1
PHCG2835	<49.9	49.9		mg/kg	06.16.2020 19:05	U	1
PHC635	<49.9	49.9		mg/kg	06.16.2020 19:05	U	1
	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	111-85-3	102	%	70-130	06.16.2020 19:05		
	84-15-1	99	%	70-130	06.16.2020 19:05		
-	PHC610 C10C28DRO PHCG2835	PHC610         <49.9	PHC610         <49.9         49.9           C10C28DRO         <49.9	PHC610       <49.9	PHC610         <49.9         49.9         mg/kg           C10C28DRO         <49.9	PHC610         <49.9         49.9         mg/kg         06.16.2020 19:05           C10C28DRO         <49.9	PHC610         <49.9         49.9         mg/kg         06.16.2020 19:05         U           C10C28DRO         <49.9

**JCO** 



### Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id: WHA @ Surface Lab Sample Id: 664362-005		Matrix:	Soil d: 06.11.2020 00:00		Date Receive	d:06.15.2020 09:35	
-		Date Concett	d. 00.11.2020 00.00				
Analytical Method: BTEX by EP	A 8021B				Prep Method:	SW5035A	
Tech: KTL					% Moisture:		
Analyst: KTL		Date Prep:	06.19.2020 15:15		Basis:	Wet Weight	
Seq Number: 3129609							
Parameter	Cas Number	Result RI		Units	Analysis D	ate Flag Dil	

			112		Cinto	That you but	1 100	21
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.20.2020 06:30	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.20.2020 06:30	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.20.2020 06:30	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.20.2020 06:30	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.20.2020 06:30	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.20.2020 06:30	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.20.2020 06:30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	85	%	70-130	06.20.2020 06:30		
4-Bromofluorobenzene		460-00-4	171	%	70-130	06.20.2020 06:30	**	



## **Certificate of Analytical Results 664362**

### Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer

E300P	
Wet Weight	
ate Flag	Dil
4:31 U	1
4	4:31 U

Analytical Method: TPH By SW80	15 Mod					Prep Method: S	W8015P	
Tech: DVM						% Moisture:		
Analyst: ARM		Date P	rep: 0	6.16.2020 12:15		Basis: V	Vet Weight	
Seq Number: 3129216								
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	)	mg/kg	06.16.2020 19:2	6 U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	1	mg/kg	06.16.2020 19:2	6 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	1	mg/kg	06.16.2020 19:2	6 U	1
Total TPH	PHC635	<50.0	50.0	)	mg/kg	06.16.2020 19:2	6 U	1
Surrogate		Cas Number	% Recove	ry Units	Limits	Analysis Da	te Flag	
1-Chlorooctane		111-85-3	102	%	70-130	06.16.2020 19	:26	
o-Terphenyl		84-15-1	100	%	70-130	06.16.2020 19	:26	



## **Certificate of Analytical Results 664362**

### Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id: <b>WHA</b> @ <b>1'</b> Lab Sample Id: 664362-006	Matrix: Date Collecte	Soil ed: 06.11.2020 00:00	Date Received:06.15.2020 09:35 Sample Depth: 1 ft		
Analytical Method: BTEX by EPA 8021B Tech: KTL			Prep Method % Moisture:	: SW5035A	
Analyst: KTL Seq Number: 3129609	Date Prep:	06.19.2020 15:15	Basis:	Wet Weight	

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.20.2020 06:51	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.20.2020 06:51	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.20.2020 06:51	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.20.2020 06:51	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.20.2020 06:51	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.20.2020 06:51	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.20.2020 06:51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	170	%	70-130	06.20.2020 06:51	**	
1,4-Difluorobenzene		540-36-3	83	%	70-130	06.20.2020 06:51		

## **Certificate of Analytical Results 664362**

### Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id:	V2 @ 1' R		Matrix:	Soil		Date Received:06	.15.2020 09	):35
Lab Sample I	d: 664362-007		Date Col	llected: 06.11.2020 00	0:00	Sample Depth: 1 f	t	
Analytical M	ethod: Chloride by EPA	300				Prep Method: E3	00P	
Tech:	CHE					% Moisture:		
Analyst:	CHE		Date Pre	p: 06.15.2020 11	:50	Basis: We	et Weight	
Seq Number:	3129045							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	14700	99.0	mg/kg	06.15.2020 14:37		20

Analytical Method: TPH By SW801	5 Mod					Prep Method: S	W8015P	
Tech: DVM						% Moisture:		
Analyst: ARM		Date P	rep: 0	6.16.2020 12:15		Basis: V	Vet Weight	
Seq Number: 3129216								
Parameter	Cas Number	e Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	06.16.2020 19:4	8 U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	06.16.2020 19:4	8 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	06.16.2020 19:4	8 U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	06.16.2020 19:4	8 U	1
Surrogate		Cas Number	% Recove	ry Units	Limits	Analysis Da	ite Flag	
1-Chlorooctane		111-85-3	99	%	70-130	06.16.2020 19	:48	
o-Terphenyl		84-15-1	99	%	70-130	06.16.2020 19	:48	

**JCO** 

## **Certificate of Analytical Results 664362**

### Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id:         V2 @ 1' R           Lab Sample Id:         664362-007	Matrix: Date Collecte	Soil ed: 06.11.2020 00:00	Date Recei Sample De	ved:06.15.2020 09:35 pth: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: KTL			Prep Metho % Moisture	od: SW5035A e:
Analyst: KTL Seq Number: 3129609	Date Prep:	06.19.2020 15:15	Basis:	Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.20.2020 07:11	U	1
Toluene	108-88-3	0.00277	0.00201		mg/kg	06.20.2020 07:11		1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.20.2020 07:11	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.20.2020 07:11	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.20.2020 07:11	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.20.2020 07:11	U	1
Total BTEX		0.00277	0.00201		mg/kg	06.20.2020 07:11		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	162	%	70-130	06.20.2020 07:11	**	
1,4-Difluorobenzene		540-36-3	81	%	70-130	06.20.2020 07:11		

**ICO** 

## **Certificate of Analytical Results 664362**

#### Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer

Sample Id:         V1 @ 2.5' R           Lab Sample Id:         664362-008		Matrix: Date Col	Soil lected: 06.11	.2020 00:00		Date Received:06.15.2020 09:35 Sample Depth: 2.5 ft		
Analytical Method: Chloride by EF	PA 300					Prep Method: E300	)P	
Tech: CHE						% Moisture:		
Analyst: CHE		Date Prep	p: 06.15.	.2020 11:50		Basis: Wet	Weight	
Seq Number: 3129045								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1060	4.96		mg/kg	06.15.2020 14:44		1
Analytical Method: TPH By SW80	)15 Mod					Prep Method: SW8	3015P	
Tech: DVM	)15 Mod					% Moisture:		
Tech: DVM Analyst: ARM	)15 Mod	Date Pre	p: 06.16.	.2020 12:15		% Moisture:	8015P Weight	
Tech: DVM	)15 Mod	Date Pre	p: 06.16.	.2020 12:15		% Moisture:		
Tech: DVM Analyst: ARM	)15 Mod Cas Number	Date Prej <b>Result</b>	p: 06.16. <b>RL</b>	.2020 12:15	Units	% Moisture:		Dil
Tech: DVM Analyst: ARM Seq Number: 3129216				.2020 12:15	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil
Tech: DVM Analyst: ARM Seq Number: 3129216 Parameter	Cas Number	Result	RL	.2020 12:15		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DVM Analyst: ARM Seq Number: 3129216 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 50.0	.2020 12:15	mg/kg	% Moisture: Basis: Wet Analysis Date 06.16.2020 20:09	Weight Flag	1
Tech: DVM Analyst: ARM Seq Number: 3129216 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.0 274	RL 50.0 50.0	.2020 12:15	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 06.16.2020 20:09 06.16.2020 20:09	Weight Flag U	1
Tech: DVM Analyst: ARM Seq Number: 3129216 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.0 274 <50.0 274 <50.0 274	RL 50.0 50.0 50.0	.2020 12:15 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 06.16.2020 20:09 06.16.2020 20:09 06.16.2020 20:09 06.16.2020 20:09	Weight Flag U	1 1 1

106

%

70-130

06.16.2020 20:09

84-15-1

o-Terphenyl



## **Certificate of Analytical Results 664362**

### Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id:         V1 @ 2.5' R           Lab Sample Id:         664362-008	Matrix: Date Collecte	Soil ed: 06.11.2020 00:00	Date Received:06.15.2020 09:35 Sample Depth: 2.5 ft		
Analytical Method: BTEX by EPA 8021B Tech: KTL			Prep Metho % Moisture	d: SW5035A :	
Analyst: KTL Seq Number: 3129609	Date Prep:	06.19.2020 15:15	Basis:	Wet Weight	

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00909	0.00201		mg/kg	06.20.2020 07:31		1
Toluene	108-88-3	0.0944	0.00201		mg/kg	06.20.2020 07:31		1
Ethylbenzene	100-41-4	0.168	0.00201		mg/kg	06.20.2020 07:31		1
m,p-Xylenes	179601-23-1	0.109	0.00402		mg/kg	06.20.2020 07:31		1
o-Xylene	95-47-6	0.0538	0.00201		mg/kg	06.20.2020 07:31		1
Total Xylenes	1330-20-7	0.163	0.00201		mg/kg	06.20.2020 07:31		1
Total BTEX		0.434	0.00201		mg/kg	06.20.2020 07:31		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	86	%	70-130	06.20.2020 07:31		
4-Bromofluorobenzene		460-00-4	191	%	70-130	06.20.2020 07:31	**	

## **Certificate of Analytical Results 664362**

### Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer

Sample Id: <b>V3 @ 2' R</b> Lab Sample Id: 664362-009		Matrix: Date Co	Soil ollected: 06.11.2020	0 00:00	Date Received Sample Depth	1:06.15.2020 09 : 2 ft	9:35
Analytical Method: Chloride by Tech: CHE Analyst: CHE Seq Number: 3129045	EPA 300	Date Pro	ep: 06.15.2020	) 11:50	Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter Chloride	Cas Number 16887-00-6	Result 13300	<b>RL</b> 101	Units mg/kg	<b>Analysis Da</b> 06.15.2020 14	8	<b>Dil</b> 20

Analytical Method: TPH By SW801	5 Mod					Prep Method: SV	V8015P	
Tech: DVM						% Moisture:		
Analyst: ARM		Date P	rep: 0	6.16.2020 12:15		Basis: W	et Weight	
Seq Number: 3129216								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	06.16.2020 20:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	06.16.2020 20:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	06.16.2020 20:30	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	06.16.2020 20:30	U	1
Surrogate		Cas Number	% Recove	ry Units	Limits	Analysis Dat	e Flag	
1-Chlorooctane		111-85-3	103	%	70-130	06.16.2020 20:3	30	
o-Terphenyl		84-15-1	102	%	70-130	06.16.2020 20:3	30	



## **Certificate of Analytical Results 664362**

### Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id:         V3 @ 2' R           Lab Sample Id:         664362-009	Matrix: Date Collecte	Soil ed: 06.11.2020 00:00	Date Receiv Sample Dep	ved:06.15.2020 09:35 pth: 2 ft
Analytical Method: BTEX by EPA 8021B Tech: KTL			Prep Metho % Moisture	od: SW5035A ::
Analyst: KTL Seq Number: 3129609	Date Prep:	06.19.2020 15:15	Basis:	Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.20.2020 07:52	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.20.2020 07:52	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.20.2020 07:52	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.20.2020 07:52	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.20.2020 07:52	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.20.2020 07:52	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.20.2020 07:52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	76	%	70-130	06.20.2020 07:52		
4-Bromofluorobenzene		460-00-4	157	%	70-130	06.20.2020 07:52	**	

IRATORIES



#### Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer

Sample Id: H Lab Sample Id: 6	EHB @ Surface 664362-010		Matrix: Date Colle	Soil cted: 06.11.2020 00:00		Date Received:0	6.15.2020 09	:35
Analytical Metho	od: Chloride by EPA	300				Prep Method: E	300P	
Tech: C	CHE					% Moisture:		
Analyst: C	CHE		Date Prep:	06.15.2020 11:50		Basis: W	Vet Weight	
Seq Number: 3	129045							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	47.9	5.02	mg/kg	06.15.2020 14:50	6	1
Analytical Metho	od: TPH By SW8015	Mod				Prep Method: S	W8015P	
2	od: TPH By SW8015 DVM	Mod				Prep Method: S % Moisture:	W8015P	
Tech: D	2	Mod	Date Prep:	06.16.2020 12:15		% Moisture:	W8015P Vet Weight	
Tech: D Analyst: A	) DVM	Mod	Date Prep:	06.16.2020 12:15		% Moisture:		
Tech: D Analyst: A	DVM ARM	Mod Cas Number	Date Prep: <b>Result</b>	06.16.2020 12:15 RL	Units	% Moisture:	Vet Weight	Dil
Tech: D Analyst: A Seq Number: 3	DVM NRM 129216				Units mg/kg	% Moisture: Basis: W	Vet Weight Flag	<b>Dil</b>

Mote	or Oil Range Hydrocarbons (MRO)	PHCG2835	<50.	0 50.0		mg/kg	06.16.2020 20:52	U	1
Tota	al 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	102	%	70-130	06.16.2020 20:52		
	o-Terphenyl		84-15-1	100	%	70-130	06.16.2020 20:52		



### Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id:	EHB @ Surface		Matrix:	Soil		Date Received	1:06.15.2	2020 09:3	35
Lab Sample I	d: 664362-010		Date Collected	1:06.11.2020 00:00					
Analytical Me	ethod: BTEX by EPA 802	21B				Prep Method:	SW503	35A	
Tech:	KTL					% Moisture:			
Analyst:	KTL		Date Prep:	06.19.2020 15:15		Basis:	Wet W	eight	
Seq Number:	3129609								
Parameter		Cas Number	Result RL		Units	Analysis Da	ate	Flag	Dil

1 ar anicter	Cas Humbe	i Result	KL		Units	Analysis Date	riag	Dii
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.20.2020 10:23	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.20.2020 10:23	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.20.2020 10:23	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	06.20.2020 10:23	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.20.2020 10:23	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.20.2020 10:23	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.20.2020 10:23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	161	%	70-130	06.20.2020 10:23	**	
1,4-Difluorobenzene		540-36-3	80	%	70-130	06.20.2020 10:23		

**ICO** 

## **Certificate of Analytical Results 664362**

### Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer

Sample Id: Lab Sample Id	<b>EHB @ 1'</b> d: 664362-011		Matrix: Date Colle	Soil cted: 06.11.2020 00:00		Date Received:06.1 Sample Depth: 1 ft	5.2020 09	:35
Analytical Me Tech: Analyst: Seq Number:	ethod: Chloride by EF CHE CHE 3129048	PA 300	Date Prep:	06.15.2020 15:00		Prep Method: E30 % Moisture: Basis: Wet	0P t Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	35.6	4.96	mg/kg	06.15.2020 19:38		1
Tech:	ethod: TPH By SW80	15 Mod				Prep Method: SW % Moisture:		
Analyst: Seq Number:	ARM 3129214		Date Prep:	06.16.2020 12:00		Basis: Wet	Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil

Parameter	Cas Numbe	r Kesult	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	06.17.2020 03:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	57.9	49.8		mg/kg	06.17.2020 03:46		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	06.17.2020 03:46	U	1
Total TPH	PHC635	57.9	49.8		mg/kg	06.17.2020 03:46		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	114	%	70-130	06.17.2020 03:46		
o-Terphenyl		84-15-1	117	%	70-130	06.17.2020 03:46		



## **Certificate of Analytical Results 664362**

### Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id:         EHB @ 1'           Lab Sample Id:         664362-011	Matrix: Date Collecte	Soil ed: 06.11.2020 00:00	Date Receive Sample Dept	ed:06.15.2020 09:35 h: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: KTL			Prep Method % Moisture:	: SW5035A
Analyst: KTL Seq Number: 3129609	Date Prep:	06.19.2020 15:15	Basis:	Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.20.2020 10:43	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.20.2020 10:43	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.20.2020 10:43	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	06.20.2020 10:43	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.20.2020 10:43	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.20.2020 10:43	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.20.2020 10:43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	162	%	70-130	06.20.2020 10:43	**	
1,4-Difluorobenzene		540-36-3	79	%	70-130	06.20.2020 10:43		



# **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 De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
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/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le 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

IRATORIES



#### **Etech Environmental & Safety Solution, Inc**

State 22 Water Transfer

Analytical Method: Seq Number:	<b>Chloride by EI</b> 3129045	PA 30	)0		Matrix:	Solid			Pı	ep Meth Date Pr		0P 5.2020	
MB Sample Id:	7705455-1-BLK	Κ		LCS Sar		7705455-	1-BKS		LCS		-	5455-1-BSD	
Parameter		MB sult	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<:	5.00	250	257	103	258	103	90-110	0	20	mg/kg	06.15.2020 11:56	
Analytical Method: Seq Number:	Chloride by EF 3129048	PA 30	)0		Matrix:	Solid			Pı	ep Meth Date Pr		0P 5.2020	
MB Sample Id:	7705489-1-BLK	ζ		LCS Sar	nple Id:	7705489-	1-BKS		LCS	D Sample	e Id: 770	5489-1-BSD	
Parameter		MB sult	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		5.00	250	259	104	260	104	90-110	0	20	mg/kg	06.15.2020 16:40	
<b>Analytical Method:</b> Seq Number:	Chloride by EI 3129045	PA 30	)0		Matrix:	Soil			Pı	ep Meth Date Pr		0P 5.2020	
Parent Sample Id:	664339-104			MS Sar	nple Id:	664339-10	04 S		MS	D Sample	e Id: 664	339-104 SD	
Parameter		rent sult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		4.95	248	278	112	275	111	90-110	1	20	mg/kg	06.15.2020 12:14	Х
									P	on Math	od: E30	ΩD	
Analytical Method: Seq Number:	Chloride by EI 3129045	PA 30	)0		Matrix:	Soil			Pi	ep Meth Date Pr		5.2020	
-		PA 30	)0			Soil 664362-0	01 S			Date Pr	ep: 06.1		
Seq Number:	3129045 664362-001 Par	PA 30 rent sult	)0 Spike Amount				01 S MSD %Rec	Limits		Date Pr	ep: 06.1	5.2020	Flag
Seq Number: Parent Sample Id:	3129045 664362-001 Par	rent	Spike	MS Sar MS	nple Id: MS	664362-00 <b>MSD</b>	MSD	<b>Limits</b> 90-110	MS	Date Pr D Sample <b>RPD</b>	ep: 06.1 e Id: 664	.5.2020 362-001 SD Analysis	Flag
Seq Number: Parent Sample Id: <b>Parameter</b>	3129045 664362-001 Par	rent sult	Spike Amount	MS Sar MS Result	nple Id: MS %Rec	664362-00 MSD Result	MSD %Rec		MS %RPD	Date Pr D Sample RPD Limit	ep: 06.1 e Id: 664 Units	.5.2020 362-001 SD Analysis Date	Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method:	3129045 664362-001 Par Re Chloride by El	rent sult 636	Spike Amount 253	MS Sar MS Result 867	mple Id: MS %Rec 91	664362-00 MSD Result 867	MSD %Rec		MS <b>%RPD</b> 0	Date Pr D Sample RPD Limit 20	ep: 06.1 e Id: 664 Units mg/kg od: E30	5.2020 362-001 SD Analysis Date 06.15.2020 13:40	Flag
Seq Number: Parent Sample Id: <b>Parameter</b> Chloride	3129045 664362-001 Pan Re	rent sult 636	Spike Amount 253	MS Sar MS Result 867	mple Id: MS %Rec 91 Matrix:	664362-00 MSD Result 867	<b>MSD</b> %Rec 91		MS) <b>%RPD</b> 0 Pt	Date Pr D Sample RPD Limit 20 rep Methe Date Pr	ep: 06.1 e Id: 664 Units mg/kg od: E30 ep: 06.1	5.2020 362-001 SD Analysis Date 06.15.2020 13:40	Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number:	3129045 664362-001 Pan Re Chloride by EH 3129048 664452-004 Pan	rent sult 636 PA 30 rent	Spike Amount 253 00 Spike	MS Sai MS Result 867 MS Sai MS	nple Id: MS %Rec 91 Matrix: nple Id: MS	664362-00 MSD Result 867 Soil 664452-00 MSD	<b>MSD</b> %Rec 91 04 S <b>MSD</b>		MS) <b>%RPD</b> 0 Pt	Date Pr D Sample <b>RPD</b> Limit 20 rep Meth Date Pr D Sample <b>RPD</b>	ep: 06.1 e Id: 664 Units mg/kg od: E30 ep: 06.1	5.2020 362-001 SD Analysis Date 06.15.2020 13:40 0P 5.2020 452-004 SD Analysis	Flag Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id:	3129045 664362-001 Pan Re Chloride by EH 3129048 664452-004 Pan	rent sult 636 PA 3(	Spike Amount 253	MS Sai MS Result 867 MS Sai	nple Id: MS %Rec 91 Matrix: nple Id:	664362-00 MSD Result 867 Soil 664452-00	MSD %Rec 91	90-110 Limits	MS %RPD 0 Pr MS	Date Pr D Sample <b>RPD</b> Limit 20 rep Meth Date Pr D Sample	ep: 06.1 e Id: 664 Units mg/kg od: E30 ep: 06.1 e Id: 664	5.2020 362-001 SD Analysis Date 06.15.2020 13:40 0P 5.2020 452-004 SD	C
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter	3129045 664362-001 Pan Re Chloride by EH 3129048 664452-004 Pan	rent sult 636 PA 30 rent sult	Spike Amount 253 00 Spike Amount	MS Sar MS Result 867 MS Sar MS Result	nple Id: MS %Rec 91 Matrix: nple Id: MS %Rec	664362-00 MSD Result 867 Soil 664452-00 MSD Result	MSD %Rec 91 04 S MSD %Rec	90-110 Limits	MS %RPD 0 Pr MS %RPD	Date Pr D Sample RPD Limit 20 rep Meth Date Pr D Sample RPD Limit	ep: 06.1 e Id: 664 Units mg/kg od: E30 ep: 06.1 e Id: 664 Units	5.2020 362-001 SD Analysis Date 06.15.2020 13:40 0P 5.2020 452-004 SD Analysis Date	Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter	3129045 664362-001 Pan Re Chloride by EH 3129048 664452-004 Pan Re	rent sult 636 PA 30 rent sult 178	Spike Amount 253 00 Spike Amount 252	MS Sar MS Result 867 MS Sar MS Result 462	nple Id: MS %Rec 91 Matrix: nple Id: MS %Rec	664362-00 MSD Result 867 Soil 664452-00 MSD Result 447	MSD %Rec 91 04 S MSD %Rec	90-110 Limits	MS %RPD 0 P1 MS %RPD 3	Date Pr D Sample RPD Limit 20 rep Meth Date Pr D Sample RPD Limit	ep: 06.1 e Id: 664 Units mg/kg od: E30 ep: 06.1 e Id: 664 Units mg/kg od: E30	5.2020 362-001 SD Analysis Date 06.15.2020 13:40 0P 5.2020 452-004 SD Analysis Date 06.15.2020 16:59	Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method:	3129045 664362-001 Pan Re Chloride by EH 3129048 664452-004 Pan Re Chloride by EH	rent sult 636 PA 30 rent sult 178	Spike Amount 253 00 Spike Amount 252	MS Sar MS Result 867 MS Sar MS Result 462	nple Id: MS %Rec 91 Matrix: nple Id: MS %Rec 113 Matrix:	664362-00 MSD Result 867 Soil 664452-00 MSD Result 447	MSD %Rec 91 04 S MSD %Rec 107	90-110 Limits	MS % <b>RPD</b> 0 Pr MS % <b>RPD</b> 3	Date Pr D Sample RPD Limit 20 rep Meth Date Pr D Sample Limit 20 rep Meth Date Pr	ep: 06.1 e Id: 664 Units mg/kg od: E30 ep: 06.1 e Id: 664 Units mg/kg od: E30 ep: 06.1	5.2020 362-001 SD Analysis Date 06.15.2020 13:40 0P 5.2020 452-004 SD Analysis Date 06.15.2020 16:59	Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number:	3129045 664362-001 Pan Re Chloride by EH 3129048 664452-004 Pan Re Chloride by EH 3129048 664452-008 Pan	rent sult 636 PA 30 rent sult 178	Spike Amount 253 00 Spike Amount 252	MS Sar MS Result 867 MS Sar MS Result 462	nple Id: MS %Rec 91 Matrix: nple Id: MS %Rec 113 Matrix:	664362-00 MSD Result 867 Soil 664452-00 MSD Result 447 Soil	MSD %Rec 91 04 S MSD %Rec 107	90-110 Limits	MS % <b>RPD</b> 0 Pr MS % <b>RPD</b> 3	Date Pr D Sample RPD Limit 20 rep Meth Date Pr D Sample Limit 20 rep Meth Date Pr	ep: 06.1 e Id: 664 Units mg/kg od: E30 ep: 06.1 e Id: 664 Units mg/kg od: E30 ep: 06.1	5.2020 362-001 SD Analysis Date 06.15.2020 13:40 0P 5.2020 452-004 SD Analysis Date 06.15.2020 16:59	Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id:	3129045 664362-001 Pan Re Chloride by EH 3129048 664452-004 Pan Re Chloride by EH 3129048 664452-008 Pan	rent sult 636 PA 30 rent sult 178 PA 30 rent	Spike Amount 253 )0 Spike Amount 252 )0 Spike	MS Sat MS Result 867 MS Sat MS Result 462 MS Sat MS	nple Id: MS %Rec 91 Matrix: nple Id: MS %Rec 113 Matrix: nple Id: MS	664362-00 MSD Result 867 Soil 664452-00 MSD Result 447 Soil 664452-00 MSD	MSD %Rec 91 04 S MSD %Rec 107	90-110 Limits 90-110 Limits	MS %RPD 0 Pr MS %RPD 3 Pr MS	Date Pr D Sample <b>RPD</b> Limit 20 rep Meth Date Pr D Sample <b>RPD</b> Limit 20 rep Meth Date Pr D Sample RPD	ep: 06.1 e Id: 664 Units mg/kg od: E30 ep: 06.1 e Id: 664 Units mg/kg od: E30 ep: 06.1 e Id: 664	5.2020 362-001 SD Analysis Date 06.15.2020 13:40 0P 5.2020 452-004 SD Analysis Date 06.15.2020 16:59 0P 5.2020 16:59	Flag X

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

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. Released to Imaging: 1/8/2021 12:33:00 PM

Page 30 of 36

Final 1.000

### QC Summary 664362



#### **Etech Environmental & Safety Solution, Inc**

State 22 Water Transfer

Analytical Method:	nalytical Method: TPH By SW8015 Mod								Prep Method: SW8015P						
Seq Number:	3129214			Matrix: Solid					Date Prep: 06.16.2020						
MB Sample Id:	7705538-1	-BLK		LCS Sample Id: 7705538-1-BKS			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 Hydrocarb	ons (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		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date			
1-Chlorooctane		120		1	29		129		70	-130	%	06.17.2020 01:35			
o-Terphenyl		126		1	22		126	i	70	-130	%	06.17.2020 01:35			

Analytical Method:	TPH By S	TPH By SW8015 Mod								Prep Method: SW8015P					
Seq Number:	3129216			Matrix: Solid					Date Prep: 06.16.2020						
MB Sample Id:	7705540-1	-BLK		LCS Sample Id: 7705540-1-BKS			LCSD Sample Id: 7705540-1-BSD								
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	866	87	904	90	70-130	4	20	mg/kg	06.16.2020 12:15			
Diesel Range Organics	(DRO)	<50.0	1000	947	95	968	97	70-130	2	20	mg/kg	06.16.2020 12:15			
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date			
1-Chlorooctane		98		1	02		105		70	-130	%	06.16.2020 12:15			
o-Terphenyl		98		1	01		106		70	-130	%	06.16.2020 12:15			

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW	8015P	
Seq Number:	3129214	Matrix:	Solid	Date Prep:	06.1	6.2020	
		MB Sample Id:	7705538-1-BLK				
Parameter		MB Result		τ	J <b>nits</b>	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)	<50.0		m	ng/kg	06.17.2020 01:16	

Analytical Method: Seq Number:	<b>TPH By SW8015 Mod</b> 3129216	Matrix: MB Sample Id:	Solid 7705540-1-BLK	Prep Method: Date Prep:			
Parameter		MB Result		ι	J <b>nits</b>	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)	<50.0		m	ng/kg	06.16.2020 11:54	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

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

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Page 31 of 36

Final 1.000



#### QC Summary 664362

#### **Etech Environmental & Safety Solution, Inc**

State 22 Water Transfer

Analytical Method:	thod: TPH By SW8015 Mod									Prep Method: SW8015P				
Seq Number:	3129214			Matrix: Soil					Date Prep: 06.16.2020					
Parent Sample Id:	664364-021	1		MS Sample Id: 664364-021 S				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 Hydrocarbo	ons (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					IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date		
1-Chlorooctane				1	29		130	)	70	-130	%	06.17.2020 02:31		
o-Terphenyl				125 124			124         70-130         %         06.17.2020 02:31							

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	Matrix: Soil MS Sample Id: 664339-101 S			Prep Method:         SW8015P           Date Prep:         06.16.2020           MSD Sample Id:         664339-101 SD									
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<49.9	997	861	86	848	85	70-130	2	20	mg/kg	06.16.2020 13:20	
Diesel Range Organics (	(DRO)	<49.9	997	945	95	927	93	70-130	2	20	mg/kg	06.16.2020 13:20	
Surrogate					1S Rec	MS Flag	MSD %Red			mits	Units	Analysis Date	
1-Chlorooctane				1	01		101		70	-130	%	06.16.2020 13:20	
o-Terphenyl				1	00		98		70	-130	%	06.16.2020 13:20	

<b>Analytical Method:</b> Seq Number: MB Sample Id:	BTEX by EPA 8021 3129609 7705919-1-BLK	B	LCS San	Matrix: nple Id:	Solid 7705919-	1-BKS			rep Metho Date Pr D Sample	ep: 06.1	5035A 19.2020 5919-1-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	0.110	110	0.113	113	70-130	3	35	mg/kg	06.20.2020 02:28	
Toluene	< 0.00200	0.100	0.104	104	0.107	107	70-130	3	35	mg/kg	06.20.2020 02:28	
Ethylbenzene	< 0.00200	0.100	0.106	106	0.110	110	70-130	4	35	mg/kg	06.20.2020 02:28	
m,p-Xylenes	< 0.00400	0.200	0.217	109	0.225	113	70-130	4	35	mg/kg	06.20.2020 02:28	
o-Xylene	< 0.00200	0.100	0.109	109	0.113	113	70-130	4	35	mg/kg	06.20.2020 02:28	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	81		8	34		88		70	-130	%	06.20.2020 02:28	
4-Bromofluorobenzene	156	**	1	47	**	155	**	70	-130	%	06.20.2020 02:28	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

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Page 32 of 36
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### **Etech Environmental & Safety Solution, Inc**

State 22 Water Transfer

Analytical Method:	BTEX by EPA 8021	1B						Р	rep Meth	od: SW	5035A	
Seq Number:	3129609		I	Matrix:	Soil				Date Pr	ep: 06.	19.2020	
Parent Sample Id:	664211-018		MS San	nple Id:	664211-01	18 S		MS	D Sample	e Id: 664	211-018 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	0.0947	95	0.0913	91	70-130	4	35	mg/kg	06.20.2020 03:08	
Toluene	< 0.00199	0.0996	0.0842	85	0.0815	82	70-130	3	35	mg/kg	06.20.2020 03:08	
Ethylbenzene	< 0.00199	0.0996	0.0879	88	0.0851	85	70-130	3	35	mg/kg	06.20.2020 03:08	
m,p-Xylenes	< 0.00398	0.199	0.174	87	0.169	85	70-130	3	35	mg/kg	06.20.2020 03:08	
o-Xylene	< 0.00199	0.0996	0.0912	92	0.0889	89	70-130	3	35	mg/kg	06.20.2020 03:08	
Surrogate			M %1	IS Rec	MS Flag	MSD %Re		_	imits	Units	Analysis Date	
1,4-Difluorobenzene			8	8		89		70	-130	%	06.20.2020 03:08	
4-Bromofluorobenzene			1:	55	**	156	**	70	-130	%	06.20.2020 03:08	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

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Page 33 of 36

Rovised Date	Allamot u	eiyed by: (Signature)	Relinquished by: (Signature) Received her (Compared to the Compared here) and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.		Mg Mn Mo Ni K Se Ag SiO i Se Ag TI U	BRCRA 13PPM Texas 11 Al Sh As Ba Ba B Ch Ca Ca Ca	- 2 6-11-20	- N S b-1)-20	11-9 S N- C.K	PI-R Sb-	$\mathcal{W} \mathcal{A} \otimes \mathcal{I}$	l(-9	<u>e Surt-</u> <u>S</u> 8-11	$\frac{\sqrt{10}}{\sqrt{10}}$	Jurt. S 6-11-20	Maritix Sampled Sampled Depth Nuclear PH N	Date Time Date Time Addition	Yes No N/A Total Containers:	Seals: (res No NIA Correction Factor: U.C. Li on ta	How Thermometer ID	WPLE RECEIPT Temp Blank Van AN Mart 1/	PO #: Due Date: 44	M L C - Rush:	Routine:	THE 12,538 MALE/ 1/2/STRY TUTA Around ANALYSIS REQUEST	2 1/ 4 T C	Phone: 575-396-2378 Fmail: Email: Ema	ate ZIP: Lovington, NM, 88260 City, State ZIP:	3100 Plains Highway Address:	Name: Etech Environmental & Safety Company Name:	Bill to: (if different)	Atlanta, GA (770) 449-8800
Revised Date 1014 19 Rev. 2019.1	-226 G//m			10317243.177470774713Hg	Sr TI Sn U V Zn					-					vanipie comments	Cample Comment	lab, if received by 4:30pm	TAT close the d	Acetate+ NaOH: 75	HOH: Na	ne. NO	2S04: H2	NO3: HN		Preservative Codes	Other:		1	ids RRC Superfund	mments	Page of A	

Cn I Co

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334

Work Order No: 12538

Chain of Custody

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

	5	" With Lie	Relinquished by: (Signature)	of service. Xenco will be llable only for the c of Xenco. A minimum charge of \$75.00 will i	Circle Method(s) and Metal(s) to be analyzed Notice: Signature of this document and relinquishment of sameles con-	Total 200.7 / 6010 200.					EH B@ 1	Sample Identification	Sample Custody Seals: Yes	Cooler Custody Seals: Yes	Received Infact:	Temperature (°C):	SAMPLE RECEIPT		* 	μ	Project Number: 125	Project Name: States	Phone: 575-396-2378	City, State ZIP: Lovington, NM, 88260	Address: 3100 Plains Highway	Company Name: Etech Envir	Project Manager: Joel Lowry			
		ray alter	Received by (Signature	tost of samples and shall not assume any be applied to each project and a charge of	I(s) to be analyzed TCLP	200.8 / 6020: 8RCRA					00-11-20	Matrix Date Time Sampled Sampled	No (N/A) Total Container	No NA Correction Factor:	ies No IE	(	Temp Blank: Yes No W		0	~		Water Transfer		NM, 88260	s Highway	Etech Environmental & Safety				
		MY M	ignature) Date/Time	sourchase order aron clean company to Xenco, it responsibility for any losses or expenses incurre \$5 for each sample submitted to Xenco, but not	TCLP/SPLP 6010: 8RCRA Sb As Ba	2 65 02						Depth	Der of				Wet Ice: Yes No Pre	isserv	ato: [[		Routine: 🗹	Turn Around	Email: Email Results to PM@etechenv.com + Client	City, State ZIP:	`. 	" Ende	Bill to: (if different)		1 ampa, FL (813) 620-2000, Tallahassee Atlant	Hobbs, NM (575) 392-7550, Carlsbar
	60 4	2	e Relinquished by: (Signature)	or 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.	a be b cu ca cr co cu re Po mg mn mo n a Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		,		ă.			трн м		d Ex	t							ANALYSIS REQUEST	env.com + Client			ĺ	fanie Fauks		1 ampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701 Atlanta CA /770\ 440-8800	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
		Man	re) / Received by: (Signature)	terms and conditions ces beyond the control viously negotiated.	K Se Ag SiO														SZH	HN		ST	Deliverables: EDD ADaPT	Reporting:Level I Level I PST/UST TRR	State of Project:	Program: UST/PST PRP Brownfields RRC Superfund	ရှိ	www.xenco.com	589-6701	
Revised Date 101419 Rev. 2019	1	6/5935	Date/Time		2 Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg					-		Sample Comments	IA1 starts the day recevied by the lab, if received by 4:30pm		7n Acetate+ NaOH: 7n	NaOH: Na		HCL: HL	HZSU4: HZ	HNU3: HN		Preservative Codes	Other:					Page & of A		SOC LOD

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664362

# **XENCO** Laboratories

# Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I	Acceptable Temperature R	ange: 0 - 6 degC
Date/ Time Received: 06.12.2020 04.20.49 PM	Air and Metal samples Acc	eptable Range: Ambient
Work Order #: 664362	Temperature Measuring de	evice used : IR8
Sample Rece	ipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.8	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	N/A	
#6*Custody Seals Signed and dated?	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: Ballo Tal Brianna Teel

Date: 06.15.2020

Checklist reviewed by: Jessica WAMER Jessica Kramer

Date: 06.15.2020

Project Id:

**Project Location:** 

**Contact:** 

Xenco

Rural Chavez

12538

PM

# Certificate of Analysis Summary 665647

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: State 22 Water Transfer Line

 Date Received in Lab:
 Fri 06.26.2020 10:40

 Report Date:
 07.07.2020 12:24

Project Manager: Jessica Kramer

	Lab Id:	665647-0	001	665647-0	02	665647-0	003	665647-0	004	665647-0	05	
Analysis Requested	Field Id:	V1 @ 3	3'	V1 @ 4	r	V2 @ 2		V3 @ 3		V3 @ 4'		
Analysis Kequesieu	Depth:	3- ft		4- ft		2- ft		3- ft		4- ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		
	Sampled:	06.24.2020	00:00	06.24.2020	00:00	06.24.2020	00:00	06.24.2020	00:00	06.24.2020	00:00	
BTEX by EPA 8021B	Extracted:	06.29.2020	15:30	06.29.2020	15:30	06.29.2020	15:30	06.29.2020	15:30	06.29.2020	15:30	
	Analyzed:	06.30.2020	02:33	06.30.2020	02:53	06.30.2020	03:14	06.30.2020	04:36	06.30.2020	13:29	
	Units/RL:	mg/kg	RL									
Benzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00201	0.00201	
Toluene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00201	0.00201	
Ethylbenzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00201	0.00201	
m,p-Xylenes		< 0.00403	0.00403	< 0.00401	0.00401	< 0.00398	0.00398	< 0.00402	0.00402	< 0.00402	0.00402	
o-Xylene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00201	0.00201	
Total Xylenes		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00201	0.00201	
Total BTEX		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00201	0.00201	
Chloride by EPA 300	Extracted:	06.26.2020	16:40	06.26.2020	16:40	06.26.2020	16:40	06.26.2020	16:40	06.26.2020	16:40	
	Analyzed:	06.26.2020	18:38	06.26.2020	18:53	06.26.2020	18:59	06.26.2020	19:04	06.26.2020	19:09	
	Units/RL:	mg/kg	RL									
Chloride		4970	25.0	1600	25.0	461	5.00	1280	25.0	514	5.00	
TPH By SW8015 Mod	Extracted:	06.26.2020	16:30	06.26.2020	16:30	06.26.2020	16:30	06.26.2020	16:30	06.26.2020	16:30	
	Analyzed:	06.26.2020	23:59	06.27.2020	00:20	06.27.2020	00:41	06.27.2020	01:24	06.27.2020	09:38	
	Units/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	449	50.0	<50.0	50.0	151	49.9	92.5	50.0	
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	50.7	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	
Total TPH		<49.8	49.8	500	50.0	<50.0	50.0	151	49.9	92.5	50.0	

BRL - Below Reporting Limit

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

Hely Taylor

Page 1 of 20

# Analytical Report 665647

# for

# **Etech Environmental & Safety Solution, Inc**

**Project Manager: PM** 

State 22 Water Transfer Line

12538

### 07.07.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-36), 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)

Xenco

07.07.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 665647 State 22 Water Transfer Line 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 Eurofins Xenco, LLC Report Number(s) 665647. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 665647 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

thely Taylor

Holly Taylor Project Manager

A Small Business and Minority Company

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

# Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
V1 @ 3'	S	06.24.2020 00:00	3 ft	665647-001
V1 @ 4'	S	06.24.2020 00:00	4 ft	665647-002
V2 @ 2'	S	06.24.2020 00:00	2 ft	665647-003
V3 @ 3'	S	06.24.2020 00:00	3 ft	665647-004
V3 @ 4'	S	06.24.2020 00:00	4 ft	665647-005

# **CASE NARRATIVE**

Client Name: Etech Environmental & Safety Solution, Inc **Project Name: State 22 Water Transfer Line** 

Project ID: 12538 Work Order Number(s): 665647

07.07.2020 Report Date: Date Received: 06.26.2020

### Sample receipt non conformances and comments:

7/7/2020 1.001 Revised to correct sample IDs for 004 and 005 per Matthew Greico (email). HT

Sample receipt non conformances and comments per sample:

None

Seq Number: 3130173

Xenco

# Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id: Lab Sample	<b>V1 @ 3'</b> Id: 665647-001		Matrix: Date Collec	Soil cted: 06.24.2020 00:00		Date Received: Sample Depth:		0:40
Analytical M Tech: Analyst: Seq Number	Method: Chloride by EP. CHE CHE :: 3130312	A 300	Date Prep:	06.26.2020 16:40		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil
Chloride		16887-00-6	4970	25.0	mg/kg	06.26.2020 18	:38	5
Analytical N Tech:	Iethod: TPH By SW801	15 Mod				Prep Method: % Moisture:	SW8015P	

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	06.26.2020 23:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	06.26.2020 23:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	06.26.2020 23:59	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	06.26.2020 23:59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-130	06.26.2020 23:59		
o-Terphenyl		84-15-1	94	%	70-130	06.26.2020 23:59		

# **Certificate of Analytical Results 665647**

# Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id: <b>V1 @ 3'</b> Lab Sample Id: 665647-001	Matrix: Soil Date Collected: 06.24.2020 00:00	Date Received:06.26.2020 10:40 Sample Depth: 3 ft
Analytical Method: BTEX by EPA 8021B Tech: KTL		Prep Method: SW5035A % Moisture:
Analyst: KTL Seq Number: 3130369	Date Prep: 06.29.2020 15:30	Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	06.30.2020 02:33	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	06.30.2020 02:33	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	06.30.2020 02:33	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	06.30.2020 02:33	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	06.30.2020 02:33	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	06.30.2020 02:33	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	06.30.2020 02:33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	107	%	70-130	06.30.2020 02:33		
1,4-Difluorobenzene		540-36-3	111	%	70-130	06.30.2020 02:33		

# Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer Line

Sample Id:         V1 @ 4'           Lab Sample Id:         665647-002		Matrix: Date Coll	Soil lected: 06.24.2	2020 00:00		Date Received:06.26.2020 10:40 Sample Depth: 4 ft		
Analytical Method: Chloride by E	PA 300					Prep Method: E30	0P	
Tech: CHE						% Moisture:		
Analyst: CHE		Date Prep	o: 06.26.2	2020 16:40		Basis: Wet	Weight	
Seq Number: 3130312							U	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1600	25.0		mg/kg	06.26.2020 18:53		5
Analytical Method: TPH By SW8	015 Mod					Prep Method: SW8	8015P	
Tech: DVM Analyst: ARM	015 Mod	Date Prep	o: 06.26.2	2020 16:30		% Moisture:	8015P Weight	
Tech: DVM	015 Mod Cas Number	Date Prep Result	o: 06.26.2	2020 16:30		% Moisture: Basis: Wet	Weight	Dil
Tech: DVM Analyst: ARM Seq Number: 3130173 Parameter	Cas Number	Result	RL	2020 16:30	Units	Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DVM Analyst: ARM Seq Number: 3130173 Parameter Gasoline Range Hydrocarbons (GRO)				2020 16:30	Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b> 1
Tech: DVM Analyst: ARM Seq Number: 3130173 Parameter	Cas Number PHC610	Result <50.0	<b>RL</b> 50.0	2020 16:30	Units	% Moisture: Basis: Wet Analysis Date 06.27.2020 00:20	Weight Flag	1
Tech: DVM Analyst: ARM Seq Number: 3130173 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.0 449	<b>RL</b> 50.0 50.0	2020 16:30	Units mg/kg mg/kg	Moisture:           Basis:         Wet           Analysis Date           06.27.2020 00:20           06.27.2020 00:20	Weight Flag	1
Tech: DVM Analyst: ARM Seq Number: 3130173 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <50.0 449 50.7 500	RL 50.0 50.0 50.0	2020 16:30 Units	Units mg/kg mg/kg mg/kg	Moisture:           Basis:         Wet           Analysis Date           06.27.2020 00:20           06.27.2020 00:20           06.27.2020 00:20           06.27.2020 00:20           06.27.2020 00:20           06.27.2020 00:20           06.27.2020 00:20	Weight Flag	1 1 1

95

%

70-130

06.27.2020 00:20

84-15-1

o-Terphenyl

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# **Certificate of Analytical Results 665647**

# Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id: V1 @ 4' Lab Sample Id: 665647-002	Matrix: Soil Date Collected: 06.24.2020 00:00	Date Received:06.26.2020 10:40 Sample Depth: 4 ft
Analytical Method: BTEX by EPA 8021B Tech: KTL		Prep Method: SW5035A % Moisture:
Analyst: KTL Seq Number: 3130369	Date Prep: 06.29.2020 15:30	Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.30.2020 02:53	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.30.2020 02:53	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.30.2020 02:53	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.30.2020 02:53	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.30.2020 02:53	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.30.2020 02:53	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.30.2020 02:53	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	70-130	06.30.2020 02:53		
1,4-Difluorobenzene		540-36-3	111	%	70-130	06.30.2020 02:53		

Xenco

# Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer Line

Sample Id: Lab Sample I	<b>V2 @ 2'</b> Id: 665647-003		Matrix: Date Collec	Soil ted: 06.24.2020 00:00		Date Received Sample Depth		10:40
Analytical M Tech: Analyst: Seq Number:	ethod: Chloride by EP CHE CHE 3130312	A 300	Date Prep:	06.26.2020 16:40		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil
Chloride		16887-00-6	461	5.00	mg/kg	06.26.2020 18	3:59	1
Analytical M	ethod: TPH By SW80	5 Mod				Prep Method:	SW8015P	
Tech:	DVM					% Moisture:		
Analyst:	ARM		Date Prep:	06.26.2020 16:30		Basis:	Wet Weight	

Seq Number: 3130173								
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	06.27.2020 00:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	06.27.2020 00:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	06.27.2020 00:41	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	06.27.2020 00:41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	103	%	70-130	06.27.2020 00:41		
o-Terphenyl		84-15-1	97	%	70-130	06.27.2020 00:41		

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# **Certificate of Analytical Results 665647**

# Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id: V2 @ 2' Lab Sample Id: 665647-003	Matrix: Soil Date Collected: 06.24.2020 00:00	Date Received:06.26.2020 10:40 Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B Tech: KTL		Prep Method: SW5035A % Moisture:
Analyst: KTL Seq Number: 3130369	Date Prep: 06.29.2020 15:30	Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	06.30.2020 03:14	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.30.2020 03:14	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.30.2020 03:14	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.30.2020 03:14	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.30.2020 03:14	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.30.2020 03:14	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	06.30.2020 03:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	110	%	70-130	06.30.2020 03:14		
4-Bromofluorobenzene		460-00-4	98	%	70-130	06.30.2020 03:14		

# Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer Line

Sample Id: <b>V3 @ 3'</b> Lab Sample Id: 665647-004		Matrix: Date Collect	Soil ted: 06.24.2020 00:00		Date Received:06.26.2 Sample Depth: 3 ft	2020 10:40
Analytical Method:Chloride by EPTech:CHEAnalyst:CHESeq Number:3130312	'A 300	Date Prep:	06.26.2020 16:40		Prep Method: E300P % Moisture: Basis: Wet Wet	eight
Parameter	Cas Number	Result F	8L	Units	Analysis Date	Flag Dil
Chloride	16887-00-6	1280	25.0	mg/kg	06.26.2020 19:04	5
Analytical Method: TPH By SW80 Tech: DVM Analyst: ARM Seq Number: 3130173	15 Mod	Date Prep:	06.26.2020 16:30		Prep Method: SW801 % Moisture: Basis: Wet We	
Parameter	Cas Number	Result F	RL.	Units	Analysis Date	Flag Dil

			RE .		emus	Tinuiy 515 Dute	1 145	DI
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	06.27.2020 01:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	151	49.9		mg/kg	06.27.2020 01:24		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	06.27.2020 01:24	U	1
Total TPH	PHC635	151	49.9		mg/kg	06.27.2020 01:24		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-130	06.27.2020 01:24		
o-Terphenyl		84-15-1	90	%	70-130	06.27.2020 01:24		

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# **Certificate of Analytical Results 665647**

# Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id: <b>V3 @ 3'</b> Lab Sample Id: 665647-004		Soil 06.24.2020 00:00	Date Received Sample Depth	:06.26.2020 10:40 3 ft
Analytical Method: BTEX by EPA 8021B Tech: KTL			Prep Method: % Moisture:	SW5035A
Analyst: KTL Seq Number: 3130369	Date Prep: 0	06.29.2020 15:30	Basis:	Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.30.2020 04:36	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.30.2020 04:36	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.30.2020 04:36	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.30.2020 04:36	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.30.2020 04:36	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.30.2020 04:36	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.30.2020 04:36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	06.30.2020 04:36		
4-Bromofluorobenzene		460-00-4	97	%	70-130	06.30.2020 04:36		

# Etech Environmental & Safety Solution, Inc, Midland, TX

State 22 Water Transfer Line

Parameter		Cas Number	Result R	L	Units	Analysis Date	e Flag	Dil
Seq Number:	3130173							
Analyst:	ARM		Date Prep:	06.26.2020 16:30		Basis: V	Vet Weight	
Tech:	DVM					% Moisture:		
Analytical Me	ethod: TPH By SW8	015 Mod				Prep Method: S	SW8015P	
Chloride		16887-00-6	514	5.00	mg/kg	06.26.2020 19:0	9	1
Parameter		Cas Number	Result R	L	Units	Analysis Date	e Flag	Dil
Seq Number:	3130312							
Analyst:	CHE		Date Prep:	06.26.2020 16:40		Basis: V	Vet Weight	
Tech:	CHE					% Moisture:		
Analytical Me	thod: Chloride by E	PA 300				Prep Method: E	E300P	
Lab Sample Id	l: 665647-005		Date Collecte	ed: 06.24.2020 00:00		Sample Depth: 4	• ft	
Sample Id:	V3 @ 4'		Matrix:	Soil		Date Received:0	0.20.2020 10	.+0

							-	
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	06.27.2020 09:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	92.5	50.0		mg/kg	06.27.2020 09:38		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	06.27.2020 09:38	U	1
Total TPH	PHC635	92.5	50.0		mg/kg	06.27.2020 09:38		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-130	06.27.2020 09:38		
o-Terphenyl		84-15-1	91	%	70-130	06.27.2020 09:38		

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# **Certificate of Analytical Results 665647**

# Etech Environmental & Safety Solution, Inc, Midland, TX

Sample Id: <b>V3 @ 4'</b> Lab Sample Id: 665647-005	Matrix: Soil Date Collected: 06.24.2020	Date Received:06.26.2020 10:40 20 00:00 Sample Depth: 4 ft
Analytical Method: BTEX by EPA 8021B Tech: KTL		Prep Method: SW5035A % Moisture:
Analyst: KTL Seq Number: 3130369	Date Prep: 06.29.2020	20 15:30 Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.30.2020 13:29	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.30.2020 13:29	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.30.2020 13:29	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.30.2020 13:29	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.30.2020 13:29	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.30.2020 13:29	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.30.2020 13:29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	06.30.2020 13:29		
4-Bromofluorobenzene		460-00-4	94	%	70-130	06.30.2020 13:29		

# **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 De	tection Limit	LOD Limit of Detection						
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitation	n					
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/Labo	ratory Control Sample Duplicate					
MD/SD Method Duplicate/Samp	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate					
+ NELAC certification not offered	l for this compound.								

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

# QC Summary 665647

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### **Etech Environmental & Safety Solution, Inc**

State 22 Water Transfer Line

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>Chloride by</b> 3130312 7706300-1-1	-	)0		Matrix: mple Id:	Solid 7706300-	1-BKS			rep Meth Date Pr D Sample	ep: 06.2	00P 26.2020 6300-1-BSD	
Parameter		MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		Result <5.00	Amount 250	Result 249	%Rec 100	Result 271	<b>%Rec</b> 108	90-110	8	Limit 20	mg/kg	Date 06.26.2020 16:57	
Chioride		<3.00	250	249	100	271	108	90-110	0	20	mg/kg	00.20.2020 10.57	
Analytical Method:		y EPA 30	)0						Pi	rep Meth			
Seq Number:	3130312				Matrix:					Date Pr	-	26.2020	
Parent Sample Id:	665657-004	Ļ		MS Sai	mple Id:	665657-0	04 S		MS.	D Sample	e Id: 665	657-004 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		343	250	587	98	590	99	90-110	1	20	mg/kg	06.26.2020 18:23	
Analytical Method:	Chloride by	y EPA 3(	00						Pi	rep Meth	od: E30	00P	
Seq Number:	3130312				Matrix:					Date Pr	-	26.2020	
Parent Sample Id:	665695-005	5		MS Sa	mple Id:	665695-0	05 S		MS	D Sample	e Id: 665	695-005 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		1050	250	1250	80	1230	72	90-110	2	20	mg/kg	06.26.2020 17:12	Х
Analytical Method: Seq Number:	<b>TPH By SV</b> 3130173	V8015 M	lod		Matrix:	Solid			Pı	rep Meth Date Pr		8015P 26.2020	
MB Sample Id:	7706305-1-	BLK		LCS Sat	nple Id:	7706305-	1-BKS		LCS	D Sample	e Id: 770	6305-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	978	98	945	95	70-130	3	20	mg/kg	06.26.2020 20:04	
Diesel Range Organics	(DRO)	< 50.0	1000	978	98	985	99	70-130	1	20	mg/kg	06.26.2020 20:04	
Surrogate		MB %Rec	MB Flag		.CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		95			94		93		70	-130	%	06.26.2020 20:04	
o-Terphenyl		90			89		87		70	-130	%	06.26.2020 20:04	
Analytical Method:		V8015 M	lod		Matrix:	Calid			Pi	rep Meth		8015P	
Seq Number:	3130173					5011d 7706305-1	1-RI K			Date Pr	ep: 06.2	26.2020	
					npie iu.	1100303-	1-DUK				¥1. •	A	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)										mg/kg	06.26.2020 19:43	
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	06.26.2020 19:43	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-}A) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-}E) \ / \ (C\text{+}E) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

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

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

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Page 17 of 20

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Final 1.001
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# QC Summary 665647

Curofins Xenco

### **Etech Environmental & Safety Solution, Inc**

State 22 Water Transfer Line

Analytical Method:	Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P													
Seq Number:	3130173				Matrix:	Soil			Date Prep: 06.26.2020					
Parent Sample Id:	665645-00	1		MS Sample Id: 665645-001 S					MSD Sample Id: 665645-001 SD					
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Gasoline Range Hydrocarbo	ons (GRO)	<49.9	998	846	85	837	84	70-130	1	20	mg/kg	06.26.2020 21:09		
Diesel Range Organics (	(DRO)	<49.9	998	863	86	873	88	70-130	1	20	mg/kg	06.26.2020 21:09		
Surrogate					IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date		
1-Chlorooctane				ç	97		98		70	-130	%	06.26.2020 21:09		
o-Terphenyl				ç	90		91		70	-130	%	06.26.2020 21:09		

Analytical Method:													
Seq Number:	3130369		]	Matrix:	Solid				Date Pr	ep: 06.2	29.2020		
MB Sample Id:	7706406-1-BLK         LCS Sample Id:         7706406-1-BKS         LCSD Sample Id:         7706406-1-BSI										6406-1-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	0.130	130	0.126	126	70-130	3	35	mg/kg	06.29.2020 22:06		
Toluene	< 0.00200	0.100	0.106	106	0.105	105	70-130	1	35	mg/kg	06.29.2020 22:06		
Ethylbenzene	< 0.00200	0.100	0.0970	97	0.0961	96	70-130	1	35	mg/kg	06.29.2020 22:06		
m,p-Xylenes	< 0.00400	0.200	0.180	90	0.180	90	70-130	0	35	mg/kg	06.29.2020 22:06		
o-Xylene	< 0.00200	0.100	0.0913	91	0.0912	91	70-130	0	35	mg/kg	06.29.2020 22:06		
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date		
1,4-Difluorobenzene	109		1	03		102		70	-130	%	06.29.2020 22:06		
4-Bromofluorobenzene	93		8	37		86		70	-130	%	06.29.2020 22:06		

Analytical Method:	BTEX by EPA 8021	B						Pi	rep Metho	od: SW	5035A		
Seq Number:	3130369		]	Matrix:	Soil			Date Prep: 06.29.2020					
Parent Sample Id:	665645-001		MS Sample Id: 665645-001 S			MSD Sample Id: 665645-001 SD							
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Benzene	< 0.00200	0.100	0.0840	84	0.0841	84	70-130	0	35	mg/kg	06.29.2020 22:47		
Toluene	< 0.00200	0.100	0.0715	72	0.0878	88	70-130	20	35	mg/kg	06.29.2020 22:47		
Ethylbenzene	< 0.00200	0.100	0.0670	67	0.0798	80	70-130	17	35	mg/kg	06.29.2020 22:47	Х	
m,p-Xylenes	< 0.00400	0.200	0.131	66	0.158	79	70-130	19	35	mg/kg	06.29.2020 22:47	Х	
o-Xylene	< 0.00200	0.100	0.0659	66	0.0792	80	70-130	18	35	mg/kg	06.29.2020 22:47	Х	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date		

Surrogate	%Rec	Flag	%Rec	Flag		Date
1,4-Difluorobenzene	100		97	70-130	%	06.29.2020 22:47
4-Bromofluorobenzene	92		100	70-130	%	06.29.2020 22:47

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

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

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

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Page 18 of 20

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 contro of Xenco. A minimum charge of \$5.00 will be applied to each project and a charge of \$6 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously regotiated.         Relinquished by: (Signature)       Received by: (Signature)       Date/Time       Relinquished by: (Signature)       Reversed by: (Signature)         1       W/W       0.0 + 35 + 30 3 · NI priv.       4       W/W       Beceived by: (Signature)         5       6       6       6       6       6       6	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	V3 @ 4 Soil			V1 @ 4' Soil	V1 @ 3' Soil	Sample Identification Matrix	s Yes No	Received Intact (Yes) No	4	SAMPLE RECEIPT Temp Blank:	# Ud	Sampler's Name Hilda Villa		State 22 W	Phone: 575-396-2378	City, State ZIP: Lovington, NM, 88260	Address 3100 Plains Hwy	Company Name: Etech Environmental and Safety	Project Manager Lance Crenshaw
t of samples constitutes a valid purch piles and shall not assume any respo to each project and a charge of \$6 fo Received by: (Signature)	8RCRA 13PPM Texas analyzed TCLP / SPLP 6010:	6/24/2020	6/24/2020	6/24/2020	6/24/2020	6/24/2020	C Date Time Sampled	Total Containers:	Composition E	Then	< Yes No Wet Ice					Email				
rchase order from client company sponsibility for any losses or expe 5 for each sample submitted to Xer re) Date/Ti	11 AI Sb 8RCRA S	4' 1/NO X	3' 1/NO X	1/NO	1/NO	3' 1/NO X	Numbe Code	r of C		ners	Veg No				Turn Around	Email Results to: PM	City, State ZIP:	Address:	Company Name: Enc	Bill to: (if different) Tef
company to Xenco, its affiliates ss or expenses incurred by the ted to Xenco, but not analyzed. Date/Time Relii ステースひ 子・パークマイ	s Ba Be B Cd Ca As Ba Be Cd Cr		××	×	×	××	TPH (SV CI- (450)	V 846 8		-	)					PM@etechenv.com + Client			Endeavor	Teffanie Fawks
illates and subcontractors. It assigns y the client if such losses are due to c yzed. These terms will be enforced ur Relinquished by. (Signature)	Cr Co Cu Fe Pb Co Cu Pb Mn Mo														ANALYSIS REQUEST		R		P	
s. It assigns standard terms and conditions are due to circumstances beyond the control enforced unless previously negotiated. ignature) Received by: (Si	∣Mn MoNiK SeAgTIU															Deliverables: EDD	Reporting:Level 🔲 Leve	State of Project:	rogram: UST/PST PF	oM Mo
ignature)	Se Ag SiO2 Na Sr TI Sn U 1631 / 245.1 / 7470						Samt	TAT starts lab, if n	Zn Acetate-	MeOH: Me	NaOH: Na	HCL: HL	H2S04: H2	HNO3: HN	Prese	ADaPT D Ot			Program: UST/PST PRP Brownfield RR	www.xenco.com Page Work Order Comments
Pate/Time	Sn U V Zn / 7470 / 7471 : Hg						Sample Comments	TAT starts the day recevied by the lab, if received by 4:30pm	Zn Acetate+ NaOH: Zn						Preservative Codes	Other:			থ⊡ Superfund⊡	<u>1</u> of <u>1</u>

Page 19 of 20

# Chain of Custody

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

Work Order No: ULDSV04

Final 1.001

# **XENCO** Laboratories

# Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I	Acceptable Temperature Range: 0 - 6 degC						
Date/ Time Received: 06.26.2020 10.40.00 AM	Air and Metal samples Acceptable Range: Ambient						
Work Order #: 665647	Temperature Measuring device used : IR-8						
Sample Recei	pt Checklist Comments						
#1 *Temperature of cooler(s)?	4.6						
#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 TPH 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: Ballot Tal Brianna Teel

Date: 06.26.2020

Checklist reviewed by: Jession Vramer

Jessica Kramer

Date: 06.26.2020

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# Appendix D Photographic Log

# Photographic Log



Initial release point facing downhill toward the bulk of the release.



# Photographic Log









CONDITIONS

Action 10809

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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

### CONDITIONS OF APPROVAL

Operator:	Action Number:	Action Type: C-141									
	ENDEAVOR ENERGY RESOURCES, LP 110 North Marienfeld 190595 10809										
Suite 200 Midland, TX79701											
OCD	OCD Condition										
Reviewer											
ceads	ceads Additional remediation may be required because evidence of the depth to groundwater determination is insufficient.										
ceads When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, the data should be no more than 25 years old, and well construction											
information should be provided. The responsible party may choose to remediate the affected area to the most stringent levels listed in Table 1 in lieu of drilling to determine the depth to groundwater.											

Released to Imaging: 1/8/2021 12:33:00 PM