State of New Mexico
Oil Conservation Division

Incident ID	NRM2014961908
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	60 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NRM2014961908
District RP	
Facility ID	
Application ID	

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

Printed Name: Carmen E Pitt Title: Senior HSE Specialist

Signature: Carmen E Pitt Date: 8/14/2020

email: cpitt@grizzlyenergyllc.com Telephone: 432-248-8145

OCD Only

Received by: Cristina Eads Date: 10/16/2020

State of New Mexico
Oil Conservation Division

Incident ID	NRM2014961908
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☑ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☑ Extents of contamination must be fully delineated.

☑ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Carmen E Pitt Title: Senior HSE Specialist

Signature: Carmen E Pitt Date: 8/14/2020

email: cpitt@grizzlyenergyllc.com Telephone: 432-248-8145

Type text

OCD Only

Received by: Cristina Eads Date: 08/14/2020

☐ Approved ☑ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Date: 10/16/2020

Site Assessment Report, Proposed Remediation Workplan and Deferral Request

Grizzly Energy, LLC
Sarah Johnston #1
Lea County, New Mexico
Unit Letter O, Section 22, Township 22 South, Range 37 East
Latitude 32.37197 North, Longitude 103.14902 West
NMOCD Reference No. Pending

Prepared By:

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

Matthew Grieco

Joel W. Lowry

ETECH Environmental & Safety Solutions, Inc.

TABLE OF CONTENTS

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Grizzly Energy, LLC, has prepared this Report for the Release Site known as the Sarah Johnston #1. Details of the release are summarized below:

Location of Release Source

Latitude: 32.37197 Longitude: -103.14902

Provided GPS are in WGS84 format.

Site Name:	Sarah Johnston #1	Site Type:	Tank Battery
Date Release Discovered:	5/18/2020	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
O	22	22S	37E	Lea

Surface Owner: [ ] State [ ] Federal [ ] Tribal [X] Private (Name William E Johnston)

Nature and Volume of Release

[ ] Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
[X] Produced Water	Volume Released (bbls) 48.7	Volume Recovered (bbls) 40
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	[X] Yes [ ] No [ ] N/A
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[ ] Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:
Failure of a check valve resulting in the tank to overflow

Initial Response

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

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

2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>50
Did the release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
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Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production or storage site?	☐ Yes ☒ No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	**Constituent**	**Method**	**Limit**
>50	Chloride	EPA 300.0 or SM4500 Cl B	10000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 INITIAL SITE ASSESSMENT

On May 27, 2020**,** Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores and/or test trenches were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores and/or test trenches were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID) and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit. A "Site & Sample Location Map" is provided as Figure 3. Field data and soil profile logs, if applicable, are provided as Appendix B.

Based on field observations and field test data, twenty-six (26) delineation soil samples (SW-Surf, EW-1', NW1-Surf, NW1-1', NW2-Surf, NW2-1', NW3-Surf, NW3-1', WW-Surf, WW-1', SW1-Surf, SW1-1', SW2-Surf, SW2-1', SW3-Surf, SW3-1', SP-1 Surf, SP-1-1', SP2-Surf, SP2-1', SP3-Surf, SP3-1', SP-4 Surf, SP-4-1', SP-5 Surf, SP 5 1') 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 beyond 1 Ft bgs in the areas characterized by sample points SP1, SP2, SP3, SP4, and SP5; and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined. 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, Grizzly Energy, LLC 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 in the area characterized by sample points SP1, SP2, SP3, SP4, and SP5 to an estimated depth of 1 Ft. BGS.
•The floor and sidewalls of the excavated area will be advanced until laboratory analytical results indicate BTEX, TPH and chloride concentrations are below the NMOCD Closure Criteria or to the maximum extent practicable.
•Excavated soil will be transported to an NMOCD-permitted surface waste facility for disposal.
•Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted "like" material.
•Impacted soil affected above the NMOCD Closure Criteria remaining in-situ adjacent to the above ground storage tanks and associated equipment will be remediated upon abandoning and decommissioning the facility.
•Upon completion of remediation activities, a *Remediation Summary and Deferral Request* will be prepared detailing field activities and laboratory analytical results from 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 500 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 Report, Proposed Remediation Workplan and Deferral Request. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately 122 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 Grizzly Energy, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Grizzly Energy, LLC.

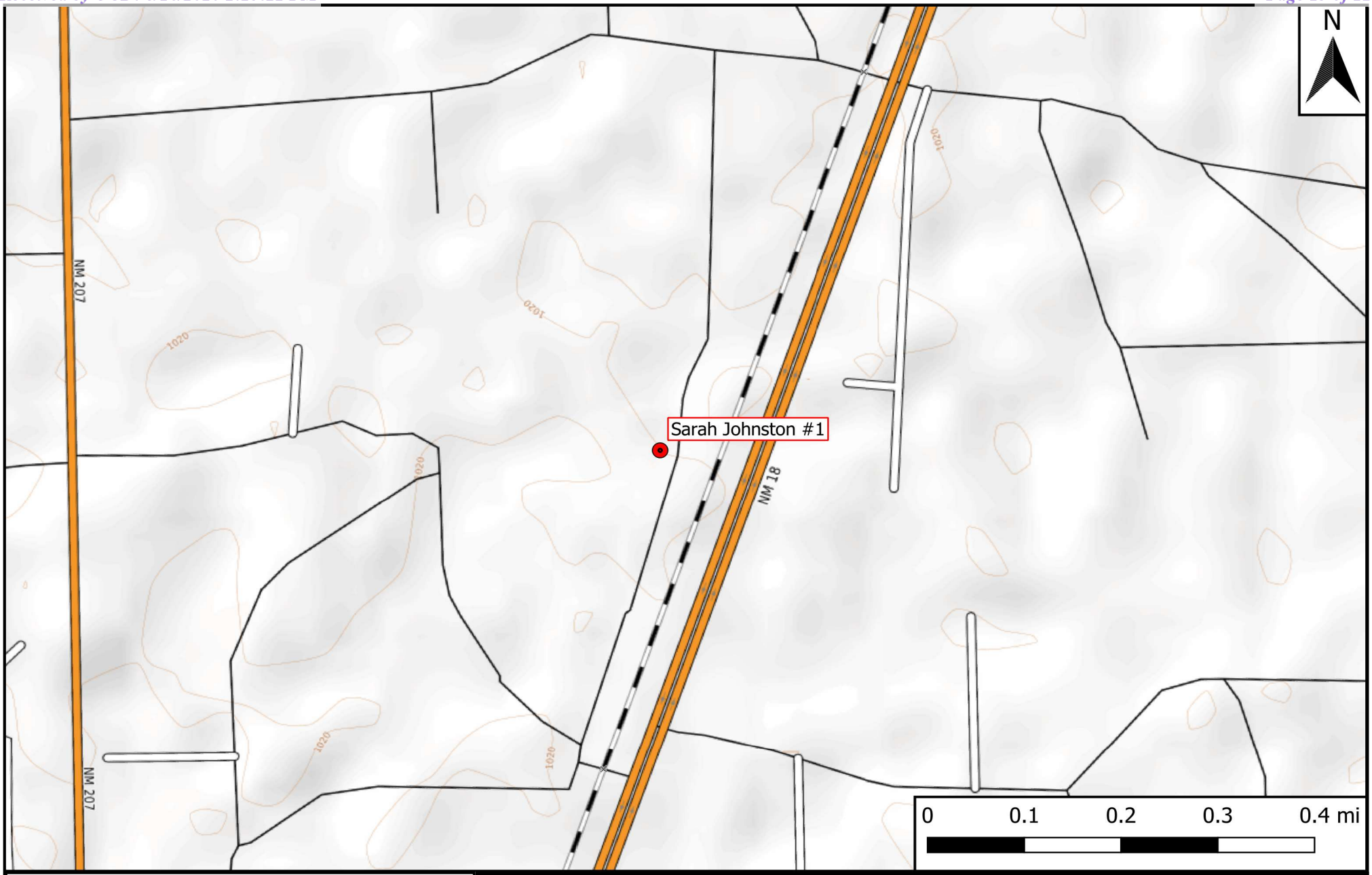
10.0 DISTRIBUTION

Grizzly Energy, LLC
4001 Penbrook
Suite 201
Odessa, TX 79762

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

(Electronic Submission)

Figure 1
Topographic Map



Legend

Site Location

Figure 1

Topographic Map

Grizzly Energy, LLC

Sarah Johnston #1

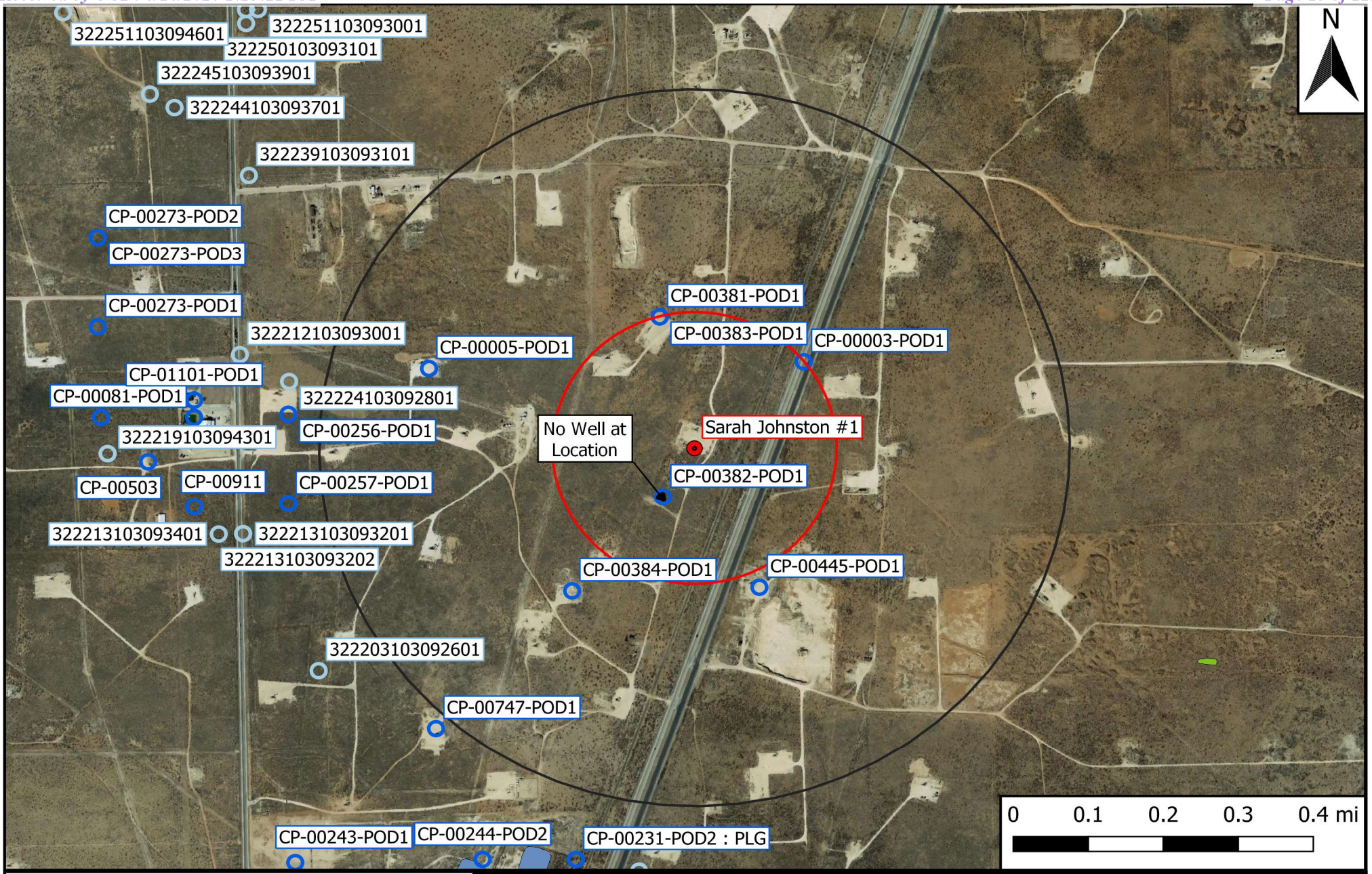
GPS: 32.371978, -103.149028

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 5/20/20

Figure 2
Aerial Proximity Map



Legend

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

Figure 2
Aerial Map
Grizzly Energy, LLC
Sarah Johnston #1
GPS: 32.37197, -103.14902
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/3/20

Figure 3
Site and Sample Location Map

Legend:

Sample Point

Affected Area

Figure 3

Site and Sample Location Map

Grizzly Energy, LLC

Sarah Johnston #1

GPS: 32.37197, -103.14902

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: jwl Checked: mag Date: 6/5/20

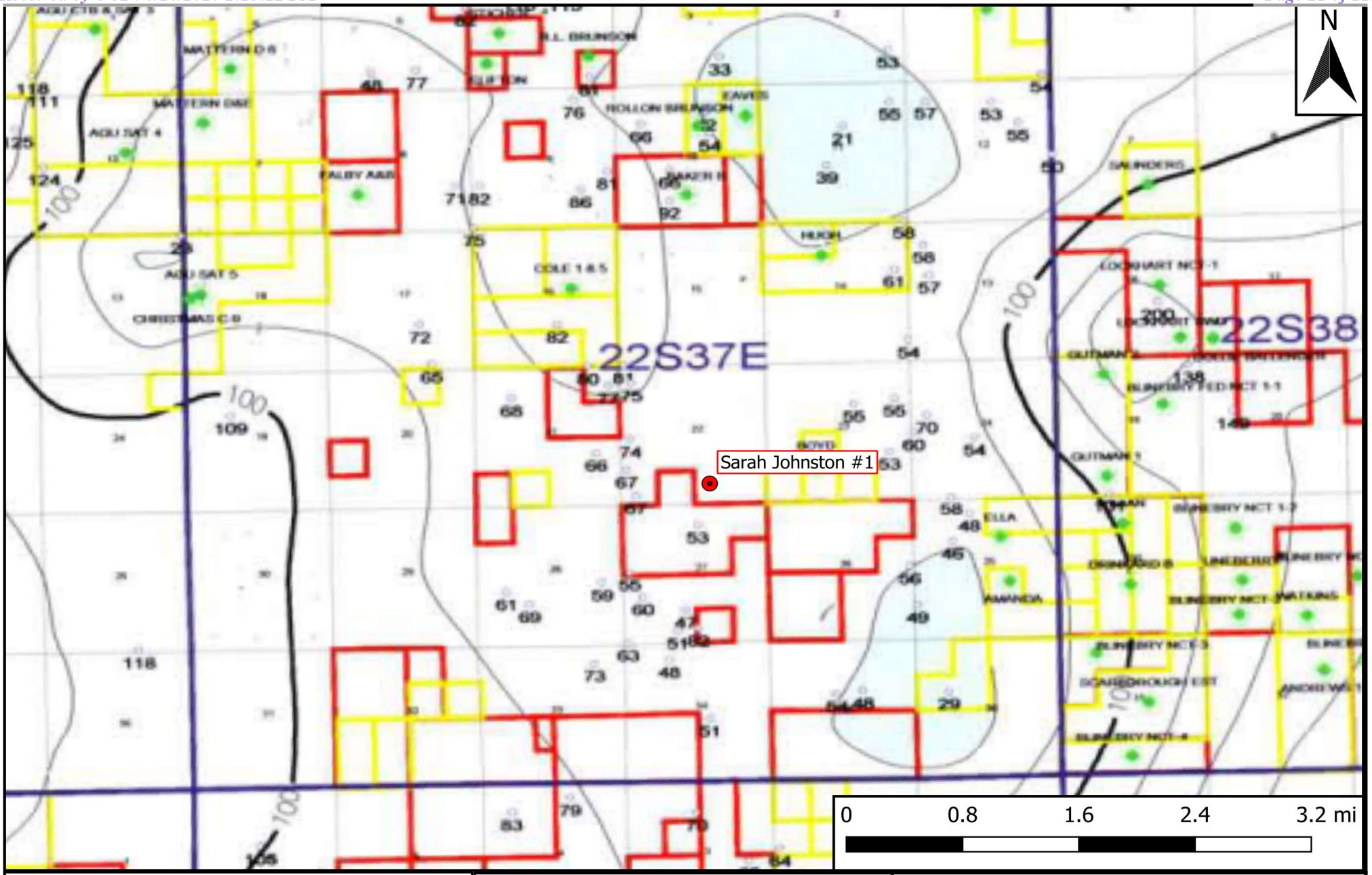
Table 1
Concentrations of BTEX, TPH, and/or Chloride in Soil

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Grizzly Energy, LLC
Sarah Johnston #1
NMOCD Ref. #: Pending

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**1000**	**-**	**2500**	**10000**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Sample ID	**Date**	**Depth**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
SW-Surf	5/27/2020	0'	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	1,100
EW-1'	5/27/2020	1'	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	52.7
NW1-Surf	5/27/2020	0'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	12.9
NW1-1'	5/27/2020	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	8.80
NW2-Surf	5/27/2020	0'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	23.2
NW2-1'	5/27/2020	1'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	8.41
NW3-Surf	5/27/2020	0'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	105
NW3-1'	5/27/2020	1'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	26.4
WW-Surf	5/27/2020	0'	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	8.39
WW-1'	5/27/2020	1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	8.51
SW1-Surf	5/27/2020	0'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	46.9
SW1-1'	5/27/2020	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	213
SW2-Surf	5/27/2020	0'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	12.4
SW2-1'	5/27/2020	1'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	9.46
SW3-Surf	5/27/2020	0'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	9.08
SW3-1'	5/27/2020	1'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	10.4
SP-1 Surf	5/27/2020	0'	In-Situ	<0.00199	0.00542	<50.0	606	606	214	820	**47,700**
SP-1-1'	5/27/2020	1'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	2,120
SP2-Surf	5/27/2020	0'	In-Situ	<0.00199	<0.00199	<49.9	755	755	206	961	**38,900**
SP2-1'	5/27/2020	1'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	2,400
SP3-Surf	5/27/2020	0'	In-Situ	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	**19,900**
SP3-1'	5/27/2020	1'	In-Situ	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	1,290
SP-4 Surf	5/27/2020	0'	In-Situ	0.00366	0.0119	<500	21,800	**21,800**	4,040	**25,800**	32.6
SP-4-1'	5/27/2020	1'	In-Situ	<0.00200	<0.00200	<50.1	95.4	95.4	<50.1	95.4	16.9
SP-5 Surf	5/27/2020	0'	In-Situ	0.00226	0.125	<502	21,200	**21,200**	4,050	**25,300**	166
SP 5 1'	5/27/2020	1'	In-Situ	<0.00201	<0.00201	<50.1	52.2	52.2	<50.1	52.2	27.5

NOTES:
- = Sample not analyzed for that constituent.
Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Appendix A
Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map

Grizzly Energy, LLC

Sarah Johnston #1

GPS: 32.371978, -103.149028

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 5/20/20

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00003 POD1		CP	LE			4	22	22S	37E	674372	3583367*	303	142	110	32

Average Depth to Water: **110 feet**

Minimum Depth: **110 feet**

Maximum Depth: **110 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 674137.69 **Northing (Y):** 3583174.2 **Radius:** 804.67

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

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

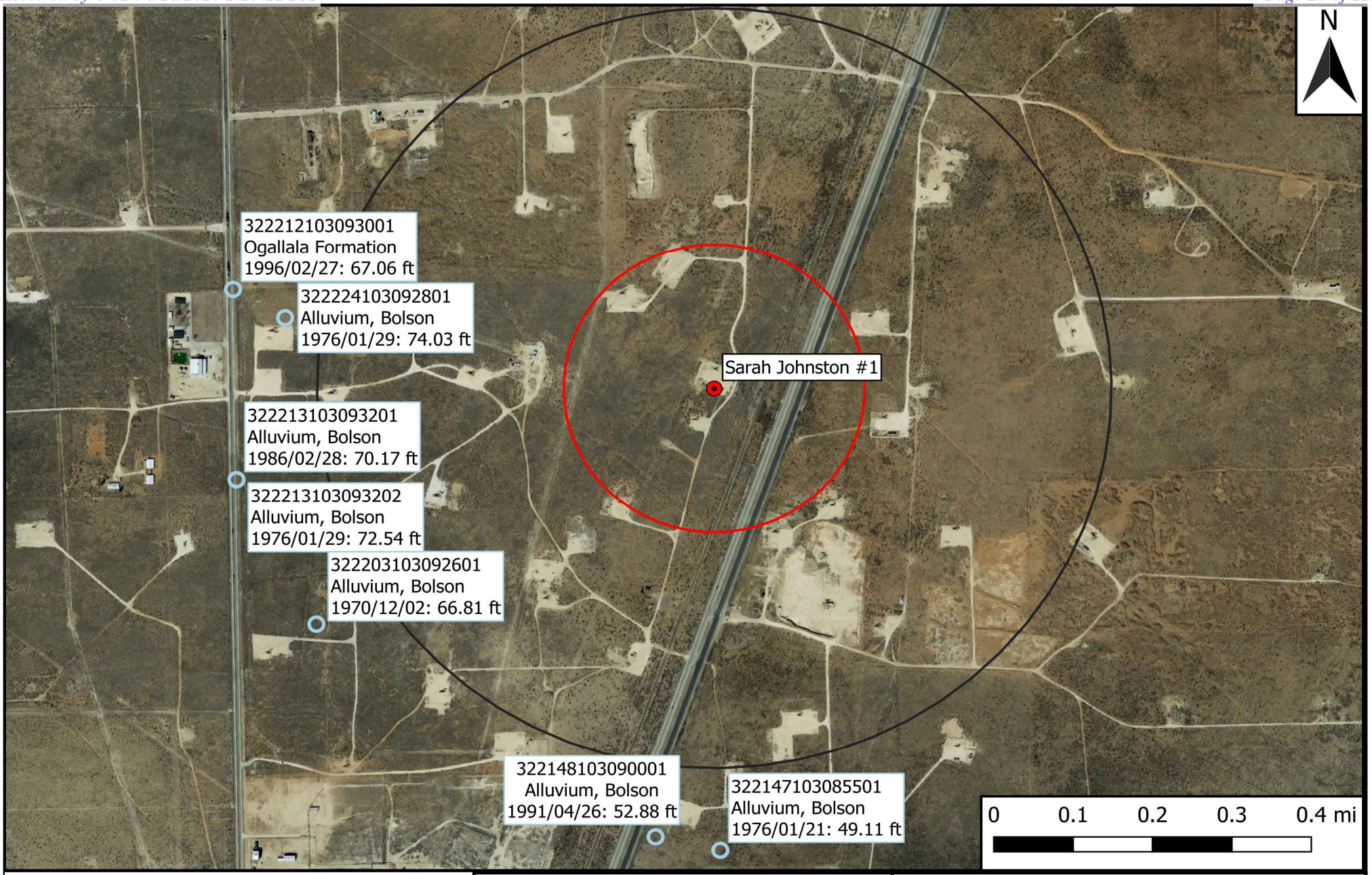
Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	CP 00003 POD1			4	22	22S	37E	674372	3583367*

Driller License: **Driller Company:**

Driller Name: E.BURKE

Drill Start Date:		**Drill Finish Date:**		**Plug Date:**	
Log File Date:		**PCW Rcv Date:**	07/13/1942	**Source:**	Shallow
Pump Type:	TURBIN	**Pipe Discharge Size:**		**Estimated Yield:**	30 GPM
Casing Size:	8.00	**Depth Well:**	142 feet	**Depth Water:**	110 feet

***UTM location was derived from PLSS - see Help**



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

Figure 5
USGS Well Proximity Map
Grizzly Energy, LLC
Sarah Johnston #1
GPS: 32.371978, -103.149028
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 5/20/20

Click to hideNews Bulletins

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

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

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322147103085501

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

USGS 322147103085501 22S.37E.27.213442

Lea County, New Mexico
Latitude 32°21'47", Longitude 103°08'55" NAD27
Land-surface elevation 3,329 feet above NAVD88
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1976-01-21		D	49.11			2		U		U	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	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322148103090001

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

USGS 322148103090001 22S.37E.27.213114

Lea County, New Mexico
Latitude 32°21'48", Longitude 103°09'00" NAD27
Land-surface elevation 3,331 feet above NAVD88
The depth of the well is 77 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1968-04-02		D	52.09			2		U		U	A
1970-12-01		D	52.10			2		U		U	A
1976-01-21		D	52.76			2		U		U	A
1981-03-19		D	53.81			2		U		U	A
1986-03-04		D	53.59			2		U		U	A
1991-04-26		D	52.88			2		U		U	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	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322203103092601

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

USGS 322203103092601 22S.37E.22.333243

Lea County, New Mexico
Latitude 32°22'03", Longitude 103°09'26" NAD27
Land-surface elevation 3,342 feet above NAVD88
The depth of the well is 135 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1970-12-02		D	66.81			2		U		U	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	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322212103093001

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

USGS 322212103093001 22S.37E.22.313343

Lea County, New Mexico
Latitude 32°22'26", Longitude 103°09'32" NAD27
Land-surface elevation 3,350.20 feet above NGVD29
The depth of the well is 145 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1953-09-29		D	69.04			2		U		U	A
1991-04-26		D	67.71			2		U		U	A
1996-02-27		D	67.06			2		S		U	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.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

National Water Information System: Web Interface

USGS Water Resources

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

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322213103093201

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

USGS 322213103093201 22S.37E.22.313331

Lea County, New Mexico
Latitude 32°22'13", Longitude 103°09'32" NAD27
Land-surface elevation 3,349 feet above NAVD88
The depth of the well is 130 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1966-04-28		D	78.50			2		U		U	A
1981-03-19		D	72.52			2		U		U	A
1986-02-28		D	70.17			2		U		U	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	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322213103093202

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

USGS 322213103093202 22S.37E.22.313330

Lea County, New Mexico
Latitude 32°22'13", Longitude 103°09'32" NAD27
Land-surface elevation 3,349 feet above NAVD88
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1976-01-29		D	72.54			2	S	U		U	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	S	Nearby site that taps the same aquifer was being pumped.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322224103092801

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

USGS 322224103092801 22S.37E.22.311213

Lea County, New Mexico
Latitude 32°22'24", Longitude 103°09'28" NAD27
Land-surface elevation 3,350 feet above NAVD88
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1970-12-02		D	70.20			2		U		U	A
1976-01-29		D	74.03			2	S	U		U	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
Status	S	Nearby site that taps the same aquifer was being pumped.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Appendix B
Field Data and Soil Profile Logs

eTECH Environmental & Safety Solutions, Inc.

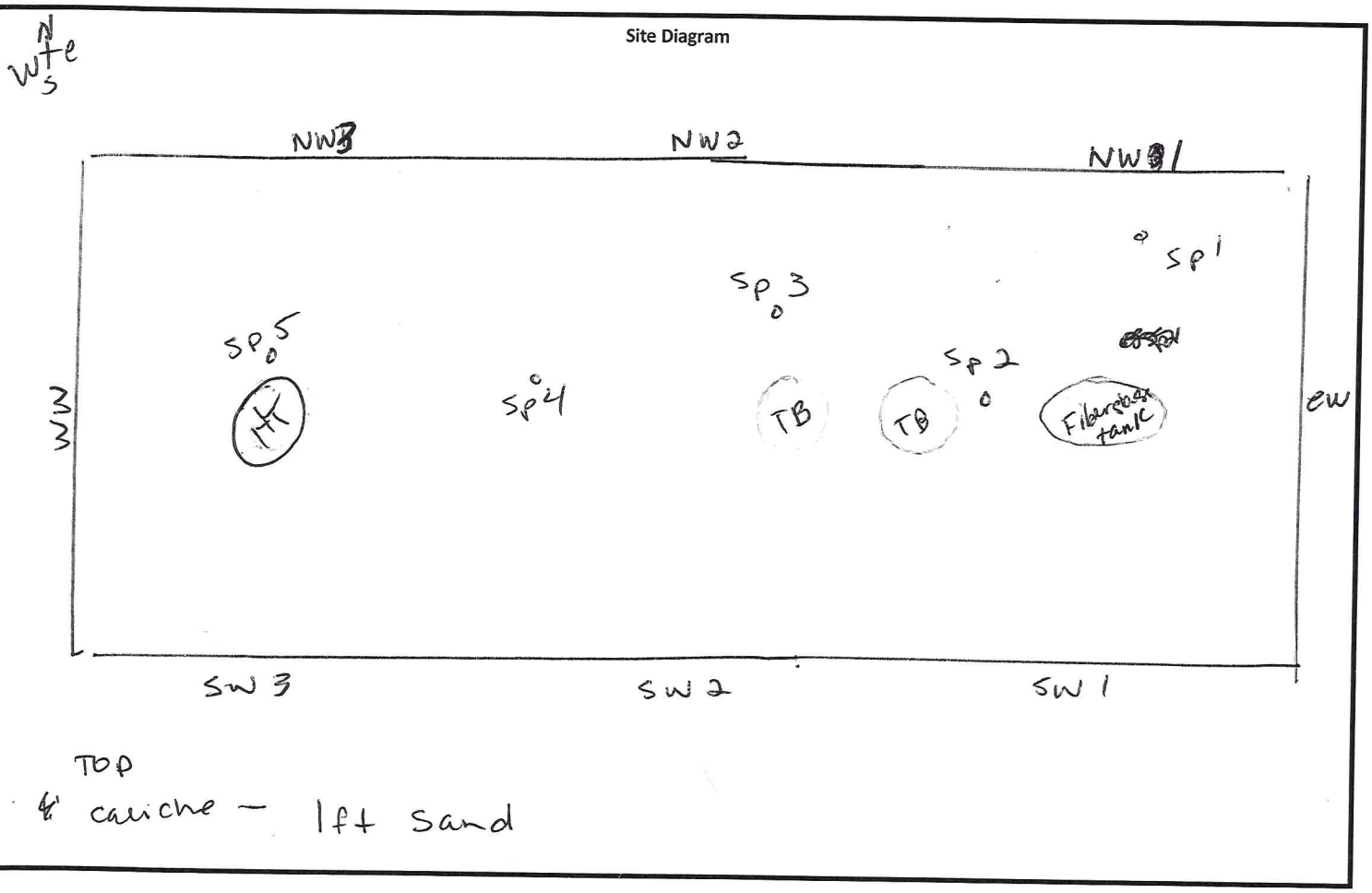
Initial Release Assessment Form

Date: 5/27/20

Project: Sarah Johnston #1 Clean Up Level: 10,000 ~~500~~ mg/kg Cl-, 100 mg/kg TPH

Project Number: 12477 Latitude: 32.371978 Longitude: -103.149028

Site Diagram



TOP

4' caliche — 1ft sand

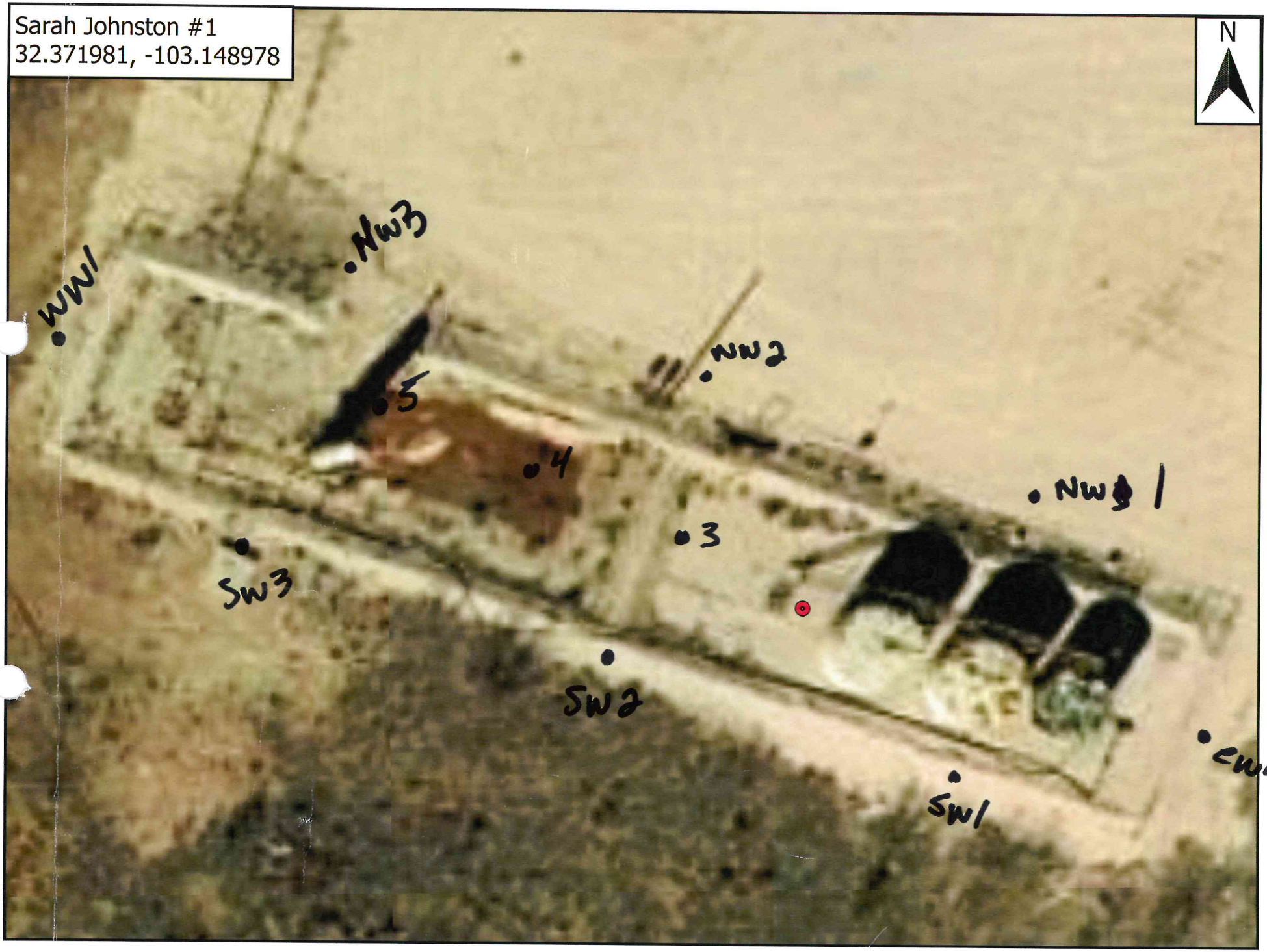
Notes:

Call DCP before digging/Auguring. See one call # 5-26-20 - Started deliniation

Called DCP - hand spot lines Before diagrs -8

~Length: 80 ~Width: 25 ~Area: ~Depth: 1'

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


Sarah Johnston #1
32.371981, -103.148978
N
NW1
NW3
5
NW2
4
NW1
3
SW3
SW2
SW1
EW1

TECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 5/27/20

Project: Sarah Johnston #1

Project Number: 12477 Latitude: 32.371978 Longitude: -103.149028

Sample ID	PID/Odor	Chloride Conc.		GPS
Sp1- surf	N/A	24,756	LAB	
sp1 - 1'		2,232	LAB	
Sp2- Surf		15,528	lab	
Sp2 - 1'		2,232	lab	
Sp3 - Surf		2,404	lab	
Sp3 - 1'		1,2116	lab	
Sp4- Surf	TPH	>128	lab	
Sp4 - 1'		>128	lab	
Sp5- Surf	TPH	184	lab	
sp5 - 1		>128	lab	
EW - Surf		12116	lab	
EW - 1		>128	lab	
NW1 - surf		>128	lab	
NW1 - 1		>128	lab	
NW 2 - Surf		>128	lab	
NW 2 - 1'		>128	lab	
NW 3 - Surf		>128	lab	
NW3 - 1'		>128	lab	
~~Base~~				
SW1 - Surf		360	lab	
SW1 - 1'		248	lab	
~~Sw~~ Sw - 2' - Surf		184	lab	
SW - 2' 1'		>128	lab	
Sw- 3 - Surf		184	lab	
SW- 3 - 1'		>128	lab	
WW - Surf		>128	lab	
WW - 10" - R		212		

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

eTECH Environmental & Safety Solutions, Inc.

Soil Profile

Date: 5/27/20

Project: Sarah Johnston #1

Project Number: 12477 Latitude: 32.371978 Longitude: -103.149028

Depth (ft. bgs)	Description
1	8" Pad/caliche
2	6" Sand/Dirt
3	Hard Packed Dirt
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
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Appendix C
Laboratory Analytical Reports

Certificate of Analysis Summary 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Sarah Jhonston

Project Id: 12477
Contact: Joel Lowry
Project Location:

Date Received in Lab: Thu 05.28.2020 10:50
Report Date: 06.04.2020 15:52
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	662739-001		662739-002		662739-003		662739-004		662739-005		662739-006	
	Field Id:	SW-Surf		EW-1'		NW1-Surf		NW1-1'		NW2- Surf		NW2-1'	
	Depth:			1- ft				1- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	05.28.2020 17:00		05.28.2020 17:00		05.28.2020 17:00		05.28.2020 17:00		05.28.2020 17:00		05.28.2020 17:00	
	Analyzed:	05.29.2020 05:22		05.29.2020 05:42		05.29.2020 06:02		05.29.2020 06:22		05.29.2020 06:43		05.29.2020 07:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00397	0.00397	<0.00398	0.00398	<0.00396	0.00396	<0.00401	0.00401	<0.00401	0.00401	<0.00399	0.00399
o-Xylene		<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Inorganic Anions by EPA 300	***Extracted:***	05.29.2020 12:10		05.29.2020 12:10		05.29.2020 12:10		05.29.2020 12:10		05.29.2020 12:10		05.29.2020 12:10	
	Analyzed:	05.29.2020 13:00		05.29.2020 13:05		05.29.2020 13:10		05.29.2020 13:26		05.29.2020 13:31		05.29.2020 13:36	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		1100	4.98	52.7	4.98	12.9	5.02	8.80	5.00	23.2	5.03	8.41	4.99
TPH by SW8015 Mod	***Extracted:***	05.28.2020 12:00		05.28.2020 12:00		05.28.2020 12:00		05.28.2020 12:00		05.28.2020 12:00		05.28.2020 12:00	
	Analyzed:	05.28.2020 14:18		05.28.2020 15:22		05.28.2020 15:43		05.28.2020 16:05		05.28.2020 16:26		05.28.2020 16:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9
Total TPH		<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9

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

Jessica Kramer
Project Manager

Certificate of Analysis Summary 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Sarah Jhonston

Project Id: 12477
Contact: Joel Lowry
Project Location:

Date Received in Lab: Thu 05.28.2020 10:50
Report Date: 06.04.2020 15:52
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	662739-007		662739-008		662739-009		662739-010		662739-011		662739-012	
	Field Id:	NW3-Surf		NW3-1'		WW-Surf		WW-1'		SW1-Surf		SW1-1'	
	Depth:			1- ft				1- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	05.28.2020 17:00		05.28.2020 17:00		05.28.2020 17:00		05.28.2020 17:00		05.29.2020 15:00		06.03.2020 14:30	
	Analyzed:	05.29.2020 07:23		05.29.2020 07:43		05.29.2020 08:03		05.29.2020 08:23		05.29.2020 19:27		06.04.2020 10:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00396	0.00396	<0.00403	0.00403	<0.00398	0.00398	<0.00401	0.00401	<0.00399	0.00399
o-Xylene		<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Inorganic Anions by EPA 300	***Extracted:***	05.29.2020 12:10		05.29.2020 12:10		05.29.2020 12:10		05.29.2020 12:10		05.29.2020 12:10		05.29.2020 12:10	
	Analyzed:	05.29.2020 13:41		05.29.2020 13:46		05.29.2020 13:51		05.29.2020 14:06		05.29.2020 14:11		05.29.2020 14:26	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		105	5.02	26.4	4.97	8.39	5.00	8.51	4.96	46.9	4.95	213	4.98
TPH by SW8015 Mod	***Extracted:***	05.28.2020 12:00		05.28.2020 12:00		05.28.2020 12:00		05.28.2020 12:00		05.28.2020 12:00		05.28.2020 12:00	
	Analyzed:	05.28.2020 17:09		05.28.2020 17:30		05.28.2020 17:52		05.28.2020 18:13		05.28.2020 18:56		05.28.2020 19:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0
Total TPH		<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Sarah Jhonston

Project Id: 12477
Contact: Joel Lowry
Project Location:

Date Received in Lab: Thu 05.28.2020 10:50
Report Date: 06.04.2020 15:52
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	662739-013		662739-014		662739-015		662739-016		662739-017		662739-018	
	Field Id:	SW2-Surf		SW2-1'		SW3-Surf		SW3-1'		SP-1 Surf		SP-1 -1'	
	Depth:			1- ft				1- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	05.28.2020 17:00		05.29.2020 15:00		05.28.2020 17:00		05.28.2020 17:00		06.03.2020 14:30		05.28.2020 17:00	
	Analyzed:	05.29.2020 11:02		05.29.2020 19:47		05.29.2020 11:45		05.29.2020 12:05		06.04.2020 10:52		05.29.2020 12:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
Toluene		<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	0.00542	0.00199	<0.00198	0.00198
Ethylbenzene		<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
m,p-Xylenes		<0.00398	0.00398	<0.00402	0.00402	<0.00396	0.00396	<0.00398	0.00398	<0.00398	0.00398	<0.00397	0.00397
o-Xylene		<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
Total Xylenes		<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
Total BTEX		<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	0.00542	0.00199	<0.00198	0.00198
Inorganic Anions by EPA 300	***Extracted:***	05.29.2020 12:10		05.29.2020 12:10		05.29.2020 12:10		05.29.2020 12:10		05.29.2020 12:10		05.29.2020 12:10	
	Analyzed:	05.29.2020 14:31		05.29.2020 14:36		05.29.2020 14:42		05.29.2020 14:47		05.29.2020 14:52		05.29.2020 14:57	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		12.4	4.97	9.46	5.04	9.08	5.02	10.4	5.03	47700	250	2120	24.9
TPH by SW8015 Mod	***Extracted:***	05.28.2020 12:00		05.28.2020 12:00		05.28.2020 12:00		05.28.2020 12:00		05.28.2020 12:00		05.28.2020 12:00	
	Analyzed:	05.28.2020 19:38		05.28.2020 19:59		05.28.2020 20:20		05.28.2020 20:41		05.28.2020 21:02		05.28.2020 21:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	606	50.0	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	214	50.0	<50.0	50.0
Total TPH		<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	820	50.0	<50.0	50.0

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Sarah Jhonston

Project Id: 12477
Contact: Joel Lowry
Project Location:

Date Received in Lab: Thu 05.28.2020 10:50
Report Date: 06.04.2020 15:52
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	662739-019		662739-020		662739-021		662739-022		662739-023		662739-024	
	Field Id:	SP2-Surf		SP2-1'		SP3-Surf		SP3-1'		SP-4 Surf		SP-4-1'	
	Depth:			1- ft				1- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00		05.27.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	05.28.2020 17:00		05.28.2020 17:00		05.29.2020 15:00		05.29.2020 15:00		06.03.2020 14:30		06.02.2020 08:00	
	Analyzed:	05.29.2020 13:06		05.29.2020 13:26		05.29.2020 17:26		05.29.2020 17:46		06.03.2020 23:51		06.02.2020 13:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	0.00366	0.00199	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	0.00822	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00398	0.00398	<0.00402	0.00402	<0.00401	0.00401	<0.00398	0.00398	<0.00401	0.00401
o-Xylene		<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	0.0119	0.00199	<0.00200	0.00200
Inorganic Anions by EPA 300	***Extracted:***	05.29.2020 12:35		05.29.2020 12:35		05.29.2020 12:35		05.29.2020 12:35		05.29.2020 12:35		05.29.2020 12:35	
	Analyzed:	05.31.2020 14:45		05.31.2020 14:50		05.31.2020 14:55		05.31.2020 15:00		05.31.2020 14:30		05.31.2020 15:16	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		38900	251	2400	25.1	19900	251	1290	5.04	32.6	4.96	16.9	4.97
TPH by SW8015 Mod	***Extracted:***	05.28.2020 12:00		05.28.2020 12:00		05.28.2020 11:00		05.28.2020 11:00		05.28.2020 11:00		05.28.2020 11:00	
	Analyzed:	05.28.2020 21:45		05.28.2020 22:06		05.28.2020 15:03		05.28.2020 15:22		05.28.2020 15:41		05.28.2020 16:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.9	49.9	<50.2	50.2	<50.1	50.1	<500	500	<50.1	50.1
Diesel Range Organics (DRO)		755	49.9	<49.9	49.9	<50.2	50.2	<50.1	50.1	21800	500	95.4	50.1
Motor Oil Range Hydrocarbons (MRO)		206	49.9	<49.9	49.9	<50.2	50.2	<50.1	50.1	4040	500	<50.1	50.1
Total TPH		961	49.9	<49.9	49.9	<50.2	50.2	<50.1	50.1	25800	500	95.4	50.1

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Sarah Jhonston

Project Id: 12477
Contact: Joel Lowry
Project Location:

Date Received in Lab: Thu 05.28.2020 10:50
Report Date: 06.04.2020 15:52
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	662739-025		662739-026					
	Field Id:	SP-5 Surf		SP 5 1'					
	Depth:			1- ft					
	Matrix:	SOIL		SOIL					
	Sampled:	05.27.2020 00:00		05.27.2020 00:00					
BTEX by EPA 8021B	***Extracted:***	06.03.2020 14:30		05.29.2020 15:00					
	Analyzed:	06.04.2020 00:12		05.29.2020 19:06					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		0.00226	0.00200	<0.00201	0.00201				
Toluene		0.0137	0.00200	<0.00201	0.00201				
Ethylbenzene		0.0157	0.00200	<0.00201	0.00201				
m,p-Xylenes		0.0596	0.00400	<0.00402	0.00402				
o-Xylene		0.0341	0.00200	<0.00201	0.00201				
Total Xylenes		0.0937	0.00200	<0.00201	0.00201				
Total BTEX		0.125	0.00200	<0.00201	0.00201				
Inorganic Anions by EPA 300	***Extracted:***	05.29.2020 12:35		05.29.2020 12:35					
	Analyzed:	05.31.2020 15:21		05.31.2020 15:26					
	Units/RL:	mg/L	RL	mg/L	RL				
Chloride		166	4.95	27.5	4.97				
TPH by SW8015 Mod	***Extracted:***	05.28.2020 11:00		05.28.2020 11:00					
	Analyzed:	05.28.2020 16:39		05.28.2020 16:59					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<502	502	<50.1	50.1				
Diesel Range Organics (DRO)		21200	502	52.2	50.1				
Motor Oil Range Hydrocarbons (MRO)		4050	502	<50.1	50.1				
Total TPH		25300	502	52.2	50.1				

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Jessica Kramer
Project Manager

Analytical Report 662739

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry

Sarah Jhonston

12477

06.04.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

06.04.2020

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

Reference: XENCO Report No(s): **662739**
Sarah Jhonston
Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 662739. 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. 662739 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica 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 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW-Surf	S	05.27.2020 00:00		662739-001
EW-1'	S	05.27.2020 00:00	1 ft	662739-002
NW1-Surf	S	05.27.2020 00:00		662739-003
NW1-1'	S	05.27.2020 00:00	1 ft	662739-004
NW2- Surf	S	05.27.2020 00:00		662739-005
NW2-1'	S	05.27.2020 00:00	1 ft	662739-006
NW3-Surf	S	05.27.2020 00:00		662739-007
NW3-1'	S	05.27.2020 00:00	1 ft	662739-008
WW-Surf	S	05.27.2020 00:00		662739-009
WW-1'	S	05.27.2020 00:00	1 ft	662739-010
SW1-Surf	S	05.27.2020 00:00		662739-011
SW1-1'	S	05.27.2020 00:00	1 ft	662739-012
SW2-Surf	S	05.27.2020 00:00		662739-013
SW2-1'	S	05.27.2020 00:00	1 ft	662739-014
SW3-Surf	S	05.27.2020 00:00		662739-015
SW3-1'	S	05.27.2020 00:00	1 ft	662739-016
SP-1 Surf	S	05.27.2020 00:00	ft	662739-017
SP-1 -1'	S	05.27.2020 00:00	1 ft	662739-018
SP2-Surf	S	05.27.2020 00:00	ft	662739-019
SP2-1'	S	05.27.2020 00:00	1 ft	662739-020
SP3-Surf	S	05.27.2020 00:00	ft	662739-021
SP3-1'	S	05.27.2020 00:00	1 ft	662739-022
SP-4 Surf	S	05.27.2020 00:00	ft	662739-023
SP-4-1'	S	05.27.2020 00:00	1 ft	662739-024
SP-5 Surf	S	05.27.2020 00:00	ft	662739-025
SP 5 1'	S	05.27.2020 00:00	1 ft	662739-026

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Sarah Jhonston

Project ID: *12477*
Work Order Number(s): *662739*

Report Date: *06.04.2020*
Date Received: *05.28.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3127371 BTEX by EPA 8021B

Lab Sample ID 662739-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene, m,p-Xylenes recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 662739-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -012, -013, -015, -016, -017, -018, -019, -020.
The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene is within laboratory Control Limits, therefore the data was accepted.

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7704334-1-BLK,662739-006,662739-001.

Batch: LBA-3127491 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected. Samples affected are: 662739-023.
Surrogate 1,4-Difluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 662739-026.

Lab Sample ID 662739-021 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 662739-011, -014, -021, -022, -023, -025, -026.
The Laboratory Control Sample for Benzene is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analytical Results 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SW-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-001	Date Collected:	05.27.2020 00:00		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1100**	4.98	mg/L	05.29.2020 13:00		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.28.2020 14:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.28.2020 14:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.28.2020 14:18	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.28.2020 14:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	05.28.2020 14:18	
o-Terphenyl	84-15-1	115	%	70-130	05.28.2020 14:18	

Certificate of Analytical Results 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SW-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-001	Date Collected:	05.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.29.2020 05:22	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.29.2020 05:22	UX	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.29.2020 05:22	UX	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.29.2020 05:22	UX	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.29.2020 05:22	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.29.2020 05:22	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.29.2020 05:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	67	%	70-130	05.29.2020 05:22	**
1,4-Difluorobenzene	540-36-3	88	%	70-130	05.29.2020 05:22	

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Sample Id:	**EW-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-002	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**52.7**	4.98	mg/L	05.29.2020 13:05		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.28.2020 15:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.28.2020 15:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.28.2020 15:22	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.28.2020 15:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	05.28.2020 15:22	
o-Terphenyl	84-15-1	116	%	70-130	05.28.2020 15:22	

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Sample Id:	**EW-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-002	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 05:42	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 05:42	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 05:42	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 05:42	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 05:42	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 05:42	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 05:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92	%	70-130	05.29.2020 05:42	
4-Bromofluorobenzene	460-00-4	101	%	70-130	05.29.2020 05:42	

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Sample Id: **NW1-Surf** Matrix: Soil Date Received:05.28.2020 10:50
Lab Sample Id: 662739-003 Date Collected: 05.27.2020 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 05.29.2020 12:10 Basis: Wet Weight
Seq Number: 3127470

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.9**	5.02	mg/L	05.29.2020 13:10		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 05.28.2020 12:00 Basis: Wet Weight
Seq Number: 3127301

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.28.2020 15:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.28.2020 15:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.28.2020 15:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.28.2020 15:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	05.28.2020 15:43	
o-Terphenyl	84-15-1	124	%	70-130	05.28.2020 15:43	

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Sample Id:	**NW1-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-003	Date Collected:	05.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.29.2020 06:02	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.29.2020 06:02	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.29.2020 06:02	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.29.2020 06:02	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.29.2020 06:02	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.29.2020 06:02	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.29.2020 06:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	05.29.2020 06:02	
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.29.2020 06:02	

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Sample Id:	**NW1-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-004	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.80**	5.00	mg/L	05.29.2020 13:26		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.28.2020 16:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.28.2020 16:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.28.2020 16:05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.28.2020 16:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	05.28.2020 16:05	
o-Terphenyl	84-15-1	123	%	70-130	05.28.2020 16:05	

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Sample Id:	**NW1-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-004	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.29.2020 06:22	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.29.2020 06:22	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.29.2020 06:22	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.29.2020 06:22	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.29.2020 06:22	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.29.2020 06:22	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.29.2020 06:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	05.29.2020 06:22	
1,4-Difluorobenzene	540-36-3	98	%	70-130	05.29.2020 06:22	

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Sample Id:	**NW2- Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-005	Date Collected:	05.27.2020 00:00		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23.2**	5.03	mg/L	05.29.2020 13:31		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.28.2020 16:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.28.2020 16:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.28.2020 16:26	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.28.2020 16:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	05.28.2020 16:26	
o-Terphenyl	84-15-1	112	%	70-130	05.28.2020 16:26	

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Sarah Jhonston

Sample Id:	**NW2- Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-005	Date Collected:	05.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.29.2020 06:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.29.2020 06:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.29.2020 06:43	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.29.2020 06:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.29.2020 06:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.29.2020 06:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.29.2020 06:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.29.2020 06:43	
4-Bromofluorobenzene	460-00-4	79	%	70-130	05.29.2020 06:43	

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Sarah Jhonston

Sample Id:	**NW2-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-006	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.41**	4.99	mg/L	05.29.2020 13:36		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.28.2020 16:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.28.2020 16:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.28.2020 16:48	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.28.2020 16:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	05.28.2020 16:48	
o-Terphenyl	84-15-1	116	%	70-130	05.28.2020 16:48	

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Sample Id:	**NW2-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-006	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.29.2020 07:03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.29.2020 07:03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.29.2020 07:03	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.29.2020 07:03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.29.2020 07:03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.29.2020 07:03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.29.2020 07:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	61	%	70-130	05.29.2020 07:03	**
1,4-Difluorobenzene	540-36-3	92	%	70-130	05.29.2020 07:03	

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Sample Id:	**NW3-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-007	Date Collected:	05.27.2020 00:00		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**105**	5.02	mg/L	05.29.2020 13:41		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.28.2020 17:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.28.2020 17:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.28.2020 17:09	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.28.2020 17:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	05.28.2020 17:09	
o-Terphenyl	84-15-1	123	%	70-130	05.28.2020 17:09	

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Sample Id:	**NW3-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-007	Date Collected:	05.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 07:23	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 07:23	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 07:23	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 07:23	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 07:23	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 07:23	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 07:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	05.29.2020 07:23	
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.29.2020 07:23	

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Sample Id:	**NW3-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-008	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**26.4**	4.97	mg/L	05.29.2020 13:46		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.28.2020 17:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.28.2020 17:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.28.2020 17:30	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.28.2020 17:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	05.28.2020 17:30	
o-Terphenyl	84-15-1	117	%	70-130	05.28.2020 17:30	

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Sample Id:	**NW3-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-008	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.29.2020 07:43	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.29.2020 07:43	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.29.2020 07:43	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.29.2020 07:43	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.29.2020 07:43	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.29.2020 07:43	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.29.2020 07:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	78	%	70-130	05.29.2020 07:43	
1,4-Difluorobenzene	540-36-3	115	%	70-130	05.29.2020 07:43	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id: **WW-Surf** Matrix: Soil Date Received:05.28.2020 10:50
Lab Sample Id: 662739-009 Date Collected: 05.27.2020 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 05.29.2020 12:10 Basis: Wet Weight
Seq Number: 3127470

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.39**	5.00	mg/L	05.29.2020 13:51		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 05.28.2020 12:00 Basis: Wet Weight
Seq Number: 3127301

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.28.2020 17:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.28.2020 17:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.28.2020 17:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.28.2020 17:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	05.28.2020 17:52	
o-Terphenyl	84-15-1	113	%	70-130	05.28.2020 17:52	

Certificate of Analytical Results 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**WW-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-009	Date Collected:	05.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.29.2020 08:03	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.29.2020 08:03	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.29.2020 08:03	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.29.2020 08:03	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.29.2020 08:03	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.29.2020 08:03	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.29.2020 08:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	05.29.2020 08:03	
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.29.2020 08:03	

Certificate of Analytical Results 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**WW-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-010	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.51**	4.96	mg/L	05.29.2020 14:06		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.28.2020 18:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.28.2020 18:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.28.2020 18:13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.28.2020 18:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	05.28.2020 18:13	
o-Terphenyl	84-15-1	117	%	70-130	05.28.2020 18:13	

Certificate of Analytical Results 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**WW-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-010	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 08:23	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 08:23	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 08:23	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 08:23	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 08:23	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 08:23	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 08:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.29.2020 08:23	
4-Bromofluorobenzene	460-00-4	106	%	70-130	05.29.2020 08:23	

Certificate of Analytical Results 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SW1-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-011	Date Collected:	05.27.2020 00:00		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**46.9**	4.95	mg/L	05.29.2020 14:11		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.28.2020 18:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.28.2020 18:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.28.2020 18:56	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.28.2020 18:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-130	05.28.2020 18:56	
o-Terphenyl	84-15-1	128	%	70-130	05.28.2020 18:56	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SW1-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-011	Date Collected:	05.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.29.2020 15:00	Basis:	Wet Weight
Seq Number:	3127491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.29.2020 19:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.29.2020 19:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.29.2020 19:27	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.29.2020 19:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.29.2020 19:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.29.2020 19:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.29.2020 19:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	05.29.2020 19:27	
1,4-Difluorobenzene	540-36-3	121	%	70-130	05.29.2020 19:27	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SW1-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-012	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**213**	4.98	mg/L	05.29.2020 14:26		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.28.2020 19:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.28.2020 19:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.28.2020 19:17	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.28.2020 19:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-130	05.28.2020 19:17	
o-Terphenyl	84-15-1	125	%	70-130	05.28.2020 19:17	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SW1-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-012	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	06.03.2020 14:30	Basis:	Wet Weight
Seq Number:	3127974				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.04.2020 10:31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.04.2020 10:31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.04.2020 10:31	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.04.2020 10:31	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.04.2020 10:31	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.04.2020 10:31	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.04.2020 10:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	06.04.2020 10:31	
1,4-Difluorobenzene	540-36-3	114	%	70-130	06.04.2020 10:31	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SW2-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-013	Date Collected:	05.27.2020 00:00		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.4**	4.97	mg/L	05.29.2020 14:31		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.28.2020 19:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.28.2020 19:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.28.2020 19:38	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.28.2020 19:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	05.28.2020 19:38	
o-Terphenyl	84-15-1	121	%	70-130	05.28.2020 19:38	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SW2-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-013	Date Collected:	05.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 11:02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 11:02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 11:02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 11:02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 11:02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 11:02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 11:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.29.2020 11:02	
4-Bromofluorobenzene	460-00-4	91	%	70-130	05.29.2020 11:02	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SW2-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-014	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.46**	5.04	mg/L	05.29.2020 14:36		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.28.2020 19:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.28.2020 19:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.28.2020 19:59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.28.2020 19:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	05.28.2020 19:59	
o-Terphenyl	84-15-1	118	%	70-130	05.28.2020 19:59	

Certificate of Analytical Results 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SW2-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-014	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.29.2020 15:00	Basis:	Wet Weight
Seq Number:	3127491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.29.2020 19:47	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.29.2020 19:47	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.29.2020 19:47	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.29.2020 19:47	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.29.2020 19:47	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.29.2020 19:47	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.29.2020 19:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	125	%	70-130	05.29.2020 19:47	
4-Bromofluorobenzene	460-00-4	112	%	70-130	05.29.2020 19:47	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id: **SW3-Surf** Matrix: Soil Date Received:05.28.2020 10:50

Lab Sample Id: 662739-015 Date Collected: 05.27.2020 00:00

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

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 05.29.2020 12:10 Basis: Wet Weight

Seq Number: 3127470

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.08**	5.02	mg/L	05.29.2020 14:42		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.28.2020 12:00 Basis: Wet Weight

Seq Number: 3127301

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.28.2020 20:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.28.2020 20:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.28.2020 20:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.28.2020 20:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	05.28.2020 20:20	
o-Terphenyl	84-15-1	122	%	70-130	05.28.2020 20:20	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SW3-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-015	Date Collected:	05.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.29.2020 11:45	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.29.2020 11:45	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.29.2020 11:45	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.29.2020 11:45	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.29.2020 11:45	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.29.2020 11:45	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.29.2020 11:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	129	%	70-130	05.29.2020 11:45	
4-Bromofluorobenzene	460-00-4	72	%	70-130	05.29.2020 11:45	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SW3-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-016	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.4**	5.03	mg/L	05.29.2020 14:47		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.28.2020 20:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.28.2020 20:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.28.2020 20:41	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.28.2020 20:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	05.28.2020 20:41	
o-Terphenyl	84-15-1	118	%	70-130	05.28.2020 20:41	

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Sample Id:	**SW3-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-016	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 12:05	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 12:05	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 12:05	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 12:05	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 12:05	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 12:05	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 12:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	05.29.2020 12:05	
1,4-Difluorobenzene	540-36-3	115	%	70-130	05.29.2020 12:05	

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Sample Id:	**SP-1 Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-017	Date Collected:	05.27.2020 00:00		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**47700**	250	mg/L	05.29.2020 14:52		50

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.28.2020 21:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	**606**	50.0	mg/kg	05.28.2020 21:02		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**214**	50.0	mg/kg	05.28.2020 21:02		1
Total TPH	PHC635	**820**	50.0	mg/kg	05.28.2020 21:02		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-130	05.28.2020 21:02	
o-Terphenyl	84-15-1	122	%	70-130	05.28.2020 21:02	

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Sample Id:	**SP-1 Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-017	Date Collected:	05.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	06.03.2020 14:30	Basis:	Wet Weight
Seq Number:	3127974				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.04.2020 10:52	U	1
Toluene	108-88-3	**0.00542**	0.00199	mg/kg	06.04.2020 10:52		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.04.2020 10:52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.04.2020 10:52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.04.2020 10:52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.04.2020 10:52	U	1
Total BTEX		**0.00542**	0.00199	mg/kg	06.04.2020 10:52		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	06.04.2020 10:52	
4-Bromofluorobenzene	460-00-4	109	%	70-130	06.04.2020 10:52	

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Sample Id:	**SP-1 -1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-018	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:10	Basis:	Wet Weight
Seq Number:	3127470				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2120**	24.9	mg/L	05.29.2020 14:57		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.28.2020 21:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.28.2020 21:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.28.2020 21:24	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.28.2020 21:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	05.28.2020 21:24	
o-Terphenyl	84-15-1	118	%	70-130	05.28.2020 21:24	

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Sample Id:	**SP-1 -1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-018	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.29.2020 12:46	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.29.2020 12:46	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.29.2020 12:46	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.29.2020 12:46	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.29.2020 12:46	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.29.2020 12:46	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.29.2020 12:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	05.29.2020 12:46	
1,4-Difluorobenzene	540-36-3	119	%	70-130	05.29.2020 12:46	

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Sample Id:	**SP2-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-019	Date Collected:	05.27.2020 00:00		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:35	Basis:	Wet Weight
Seq Number:	3127471				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**38900**	251	mg/L	05.31.2020 14:45		50

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.28.2020 21:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	**755**	49.9	mg/kg	05.28.2020 21:45		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**206**	49.9	mg/kg	05.28.2020 21:45		1
Total TPH	PHC635	**961**	49.9	mg/kg	05.28.2020 21:45		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	05.28.2020 21:45	
o-Terphenyl	84-15-1	121	%	70-130	05.28.2020 21:45	

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Sample Id:	**SP2-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-019	Date Collected:	05.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 13:06	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 13:06	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 13:06	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 13:06	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 13:06	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 13:06	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 13:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.29.2020 13:06	
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.29.2020 13:06	

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Sample Id:	**SP2-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-020	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:35	Basis:	Wet Weight
Seq Number:	3127471				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2400**	25.1	mg/L	05.31.2020 14:50		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 12:00	Basis:	Wet Weight
Seq Number:	3127301				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.28.2020 22:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.28.2020 22:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.28.2020 22:06	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.28.2020 22:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	05.28.2020 22:06	
o-Terphenyl	84-15-1	123	%	70-130	05.28.2020 22:06	

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Sample Id:	**SP2-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-020	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.28.2020 17:00	Basis:	Wet Weight
Seq Number:	3127371				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 13:26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 13:26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 13:26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 13:26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 13:26	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 13:26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 13:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	05.29.2020 13:26	
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.29.2020 13:26	

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Sample Id:	**SP3-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-021	Date Collected:	05.27.2020 00:00		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:35	Basis:	Wet Weight
Seq Number:	3127471				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**19900**	251	mg/L	05.31.2020 14:55		50

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 11:00	Basis:	Wet Weight
Seq Number:	3127302				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.28.2020 15:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.28.2020 15:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.28.2020 15:03	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.28.2020 15:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	05.28.2020 15:03	
o-Terphenyl	84-15-1	113	%	70-130	05.28.2020 15:03	

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Sample Id:	**SP3-Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-021	Date Collected:	05.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.29.2020 15:00	Basis:	Wet Weight
Seq Number:	3127491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.29.2020 17:26	UX	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.29.2020 17:26	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.29.2020 17:26	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.29.2020 17:26	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.29.2020 17:26	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.29.2020 17:26	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.29.2020 17:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	88	%	70-130	05.29.2020 17:26	
1,4-Difluorobenzene	540-36-3	82	%	70-130	05.29.2020 17:26	

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Sample Id:	**SP3-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-022	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:35	Basis:	Wet Weight
Seq Number:	3127471				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1290**	5.04	mg/L	05.31.2020 15:00		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 11:00	Basis:	Wet Weight
Seq Number:	3127302				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.28.2020 15:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.28.2020 15:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.28.2020 15:22	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.28.2020 15:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	05.28.2020 15:22	
o-Terphenyl	84-15-1	113	%	70-130	05.28.2020 15:22	

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Sample Id:	**SP3-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-022	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.29.2020 15:00	Basis:	Wet Weight
Seq Number:	3127491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.29.2020 17:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.29.2020 17:46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.29.2020 17:46	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.29.2020 17:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.29.2020 17:46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.29.2020 17:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.29.2020 17:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	05.29.2020 17:46	
4-Bromofluorobenzene	460-00-4	103	%	70-130	05.29.2020 17:46	

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Sarah Jhonston

Sample Id:	**SP-4 Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-023	Date Collected:	05.27.2020 00:00		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:35	Basis:	Wet Weight
Seq Number:	3127471				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**32.6**	4.96	mg/L	05.31.2020 14:30		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 11:00	Basis:	Wet Weight
Seq Number:	3127302				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<500	500	mg/kg	05.28.2020 15:41	U	10
Diesel Range Organics (DRO)	C10C28DRO	**21800**	500	mg/kg	05.28.2020 15:41		10
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**4040**	500	mg/kg	05.28.2020 15:41		10
Total TPH	PHC635	**25800**	500	mg/kg	05.28.2020 15:41		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-130	05.28.2020 15:41	
o-Terphenyl	84-15-1	109	%	70-130	05.28.2020 15:41	

Certificate of Analytical Results 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SP-4 Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-023	Date Collected:	05.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	06.03.2020 14:30	Basis:	Wet Weight
Seq Number:	3127903				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00366**	0.00199	mg/kg	06.03.2020 23:51		1
Toluene	108-88-3	**0.00822**	0.00199	mg/kg	06.03.2020 23:51		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.03.2020 23:51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.03.2020 23:51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.03.2020 23:51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.03.2020 23:51	U	1
Total BTEX		**0.0119**	0.00199	mg/kg	06.03.2020 23:51		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	06.03.2020 23:51	
1,4-Difluorobenzene	540-36-3	115	%	70-130	06.03.2020 23:51	

Certificate of Analytical Results 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SP-4-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-024	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:35	Basis:	Wet Weight
Seq Number:	3127471				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.9**	4.97	mg/L	05.31.2020 15:16		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 11:00	Basis:	Wet Weight
Seq Number:	3127302				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.28.2020 16:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	**95.4**	50.1	mg/kg	05.28.2020 16:20		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.28.2020 16:20	U	1
Total TPH	PHC635	**95.4**	50.1	mg/kg	05.28.2020 16:20		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	05.28.2020 16:20	
o-Terphenyl	84-15-1	115	%	70-130	05.28.2020 16:20	

Certificate of Analytical Results 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SP-4-1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-024	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	06.02.2020 08:00	Basis:	Wet Weight
Seq Number:	3127693				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.02.2020 13:41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.02.2020 13:41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.02.2020 13:41	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.02.2020 13:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.02.2020 13:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.02.2020 13:41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.02.2020 13:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.02.2020 13:41	
4-Bromofluorobenzene	460-00-4	128	%	70-130	06.02.2020 13:41	

Certificate of Analytical Results 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SP-5 Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-025	Date Collected:	05.27.2020 00:00		

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:35	Basis:	Wet Weight
Seq Number:	3127471				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**166**	4.95	mg/L	05.31.2020 15:21		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 11:00	Basis:	Wet Weight
Seq Number:	3127302				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<502	502	mg/kg	05.28.2020 16:39	U	10
Diesel Range Organics (DRO)	C10C28DRO	**21200**	502	mg/kg	05.28.2020 16:39		10
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**4050**	502	mg/kg	05.28.2020 16:39		10
Total TPH	PHC635	**25300**	502	mg/kg	05.28.2020 16:39		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	05.28.2020 16:39	
o-Terphenyl	84-15-1	94	%	70-130	05.28.2020 16:39	

Certificate of Analytical Results 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SP-5 Surf**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-025	Date Collected:	05.27.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	06.03.2020 14:30	Basis:	Wet Weight
Seq Number:	3127903				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00226**	0.00200	mg/kg	06.04.2020 00:12		1
Toluene	108-88-3	**0.0137**	0.00200	mg/kg	06.04.2020 00:12		1
Ethylbenzene	100-41-4	**0.0157**	0.00200	mg/kg	06.04.2020 00:12		1
m,p-Xylenes	179601-23-1	**0.0596**	0.00400	mg/kg	06.04.2020 00:12		1
o-Xylene	95-47-6	**0.0341**	0.00200	mg/kg	06.04.2020 00:12		1
Total Xylenes	1330-20-7	**0.0937**	0.00200	mg/kg	06.04.2020 00:12		1
Total BTEX		**0.125**	0.00200	mg/kg	06.04.2020 00:12		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	06.04.2020 00:12	
4-Bromofluorobenzene	460-00-4	98	%	70-130	06.04.2020 00:12	

Certificate of Analytical Results 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SP 5 1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-026	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.29.2020 12:35	Basis:	Wet Weight
Seq Number:	3127471				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**27.5**	4.97	mg/L	05.31.2020 15:26		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.28.2020 11:00	Basis:	Wet Weight
Seq Number:	3127302				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.28.2020 16:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	**52.2**	50.1	mg/kg	05.28.2020 16:59		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.28.2020 16:59	U	1
Total TPH	PHC635	**52.2**	50.1	mg/kg	05.28.2020 16:59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	05.28.2020 16:59	
o-Terphenyl	84-15-1	110	%	70-130	05.28.2020 16:59	

Certificate of Analytical Results 662739

Etech Environmental & Safety Solution, Inc, Midland, TX

Sarah Jhonston

Sample Id:	**SP 5 1'**	Matrix:	Soil	Date Received:	05.28.2020 10:50
Lab Sample Id:	662739-026	Date Collected:	05.27.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	05.29.2020 15:00	Basis:	Wet Weight
Seq Number:	3127491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.29.2020 19:06	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.29.2020 19:06	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.29.2020 19:06	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.29.2020 19:06	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.29.2020 19:06	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.29.2020 19:06	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.29.2020 19:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	141	%	70-130	05.29.2020 19:06	**
4-Bromofluorobenzene	460-00-4	89	%	70-130	05.29.2020 19:06	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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

QC Summary 662739

Etech Environmental & Safety Solution, Inc

Sarah Jhonston

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3127470 — Matrix: Solid — Date Prep: 05.29.2020
MB Sample Id: 7704379-1-BLK — LCS Sample Id: 7704379-1-BKS — LCSD Sample Id: 7704379-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	239	96	250	100	90-110	4	20	mg/L	05.29.2020 12:30	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3127471 — Matrix: Solid — Date Prep: 05.29.2020
MB Sample Id: 7704380-1-BLK — LCS Sample Id: 7704380-1-BKS — LCSD Sample Id: 7704380-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	237	95	248	99	90-110	5	20	mg/L	05.31.2020 14:20	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3127470 — Matrix: Soil — Date Prep: 05.29.2020
Parent Sample Id: 662739-009 — MS Sample Id: 662739-009 S — MSD Sample Id: 662739-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.39	250	257	99	259	100	90-110	1	20	mg/L	05.29.2020 13:56	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3127470 — Matrix: Soil — Date Prep: 05.29.2020
Parent Sample Id: 662811-029 — MS Sample Id: 662811-029 S — MSD Sample Id: 662811-029 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	82.5	251	344	104	339	102	90-110	1	20	mg/L	05.29.2020 12:45	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3127471 — Matrix: Soil — Date Prep: 05.29.2020
Parent Sample Id: 662739-023 — MS Sample Id: 662739-023 S — MSD Sample Id: 662739-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	32.6	248	269	95	282	101	90-110	5	20	mg/L	05.31.2020 14:35	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3127471 — Matrix: Soil — Date Prep: 05.29.2020
Parent Sample Id: 662867-003 — MS Sample Id: 662867-003 S — MSD Sample Id: 662867-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	47.2	251	290	97	301	101	90-110	4	20	mg/L	05.31.2020 15:46	

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

QC Summary 662739

Etech Environmental & Safety Solution, Inc

Sarah Jhonston

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3127302 — Matrix: Solid — Date Prep: 05.28.2020
MB Sample Id: 7704293-1-BLK — LCS Sample Id: 7704293-1-BKS — LCSD Sample Id: 7704293-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1160	116	1170	117	70-130	1	20	mg/kg	05.28.2020 11:32	
Diesel Range Organics (DRO)	<50.0	1000	1190	119	1180	118	70-130	1	20	mg/kg	05.28.2020 11:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		90		130		70-130	%	05.28.2020 11:32
o-Terphenyl	129		128		129		70-130	%	05.28.2020 11:32

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3127301 — Matrix: Solid — Date Prep: 05.28.2020
MB Sample Id: 7704295-1-BLK — LCS Sample Id: 7704295-1-BKS — LCSD Sample Id: 7704295-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	891	89	917	92	70-130	3	20	mg/kg	05.28.2020 13:35	
Diesel Range Organics (DRO)	<50.0	1000	946	95	975	98	70-130	3	20	mg/kg	05.28.2020 13:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		113		114		70-130	%	05.28.2020 13:35
o-Terphenyl	114		115		115		70-130	%	05.28.2020 13:35

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3127302 — Matrix: Solid — Date Prep: 05.28.2020
MB Sample Id: 7704293-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.28.2020 11:13	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3127301 — Matrix: Solid — Date Prep: 05.28.2020
MB Sample Id: 7704295-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.28.2020 13:14	

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

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

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

QC Summary 662739

Etech Environmental & Safety Solution, Inc

Sarah Jhonston

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3127302 — Matrix: Soil — Date Prep: 05.28.2020
Parent Sample Id: 662742-001 — MS Sample Id: 662742-001 S — MSD Sample Id: 662742-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	976	98	990	99	70-130	1	20	mg/kg	05.28.2020 12:29	
Diesel Range Organics (DRO)	<50.2	1000	924	92	936	94	70-130	1	20	mg/kg	05.28.2020 12:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	119		125		70-130	%	05.28.2020 12:29
o-Terphenyl	110		110		70-130	%	05.28.2020 12:29

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3127301 — Matrix: Soil — Date Prep: 05.28.2020
Parent Sample Id: 662739-001 — MS Sample Id: 662739-001 S — MSD Sample Id: 662739-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	893	89	896	90	70-130	0	20	mg/kg	05.28.2020 14:39	
Diesel Range Organics (DRO)	<50.0	999	953	95	977	98	70-130	2	20	mg/kg	05.28.2020 14:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		114		70-130	%	05.28.2020 14:39
o-Terphenyl	112		118		70-130	%	05.28.2020 14:39

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3127371 — Matrix: Solid — Date Prep: 05.28.2020
MB Sample Id: 7704334-1-BLK — LCS Sample Id: 7704334-1-BKS — LCSD Sample Id: 7704334-1-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	0.105	105	0.117	117	70-130	11	35	mg/kg	05.29.2020 03:04	
Toluene	<0.00200	0.100	0.102	102	0.111	111	70-130	8	35	mg/kg	05.29.2020 03:04	
Ethylbenzene	<0.00200	0.100	0.0990	99	0.107	107	70-130	8	35	mg/kg	05.29.2020 03:04	
m,p-Xylenes	<0.00400	0.200	0.206	103	0.222	111	70-130	7	35	mg/kg	05.29.2020 03:04	
o-Xylene	<0.00200	0.100	0.105	105	0.113	113	70-130	7	35	mg/kg	05.29.2020 03:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		96		111		70-130	%	05.29.2020 03:04
4-Bromofluorobenzene	73		113		117		70-130	%	05.29.2020 03:04

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

QC Summary 662739

Etech Environmental & Safety Solution, Inc

Sarah Jhonston

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3127491 — Matrix: Solid — Date Prep: 05.29.2020
MB Sample Id: 7704443-1-BLK — LCS Sample Id: 7704443-1-BKS — LCSD Sample Id: 7704443-1-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	0.116	116	0.115	115	70-130	1	35	mg/kg	05.29.2020 15:07	
Toluene	<0.00200	0.100	0.115	115	0.114	114	70-130	1	35	mg/kg	05.29.2020 15:07	
Ethylbenzene	<0.00200	0.100	0.114	114	0.112	112	70-130	2	35	mg/kg	05.29.2020 15:07	
m,p-Xylenes	<0.00400	0.200	0.235	118	0.229	115	70-130	3	35	mg/kg	05.29.2020 15:07	
o-Xylene	<0.00200	0.100	0.116	116	0.113	113	70-130	3	35	mg/kg	05.29.2020 15:07	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		102		107		70-130	%	05.29.2020 15:07
4-Bromofluorobenzene	71		113		114		70-130	%	05.29.2020 15:07

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3127693 — Matrix: Solid — Date Prep: 06.02.2020
MB Sample Id: 7704596-1-BLK — LCS Sample Id: 7704596-1-BKS — LCSD Sample Id: 7704596-1-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	0.0943	94	0.102	102	70-130	8	35	mg/kg	06.02.2020 09:16	
Toluene	<0.00200	0.100	0.104	104	0.110	110	70-130	6	35	mg/kg	06.02.2020 09:16	
Ethylbenzene	<0.00200	0.100	0.0997	100	0.105	105	70-130	5	35	mg/kg	06.02.2020 09:16	
m,p-Xylenes	<0.00400	0.200	0.204	102	0.213	107	70-130	4	35	mg/kg	06.02.2020 09:16	
o-Xylene	<0.00200	0.100	0.0977	98	0.102	102	70-130	4	35	mg/kg	06.02.2020 09:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		101		104		70-130	%	06.02.2020 09:16
4-Bromofluorobenzene	103		106		109		70-130	%	06.02.2020 09:16

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3127903 — Matrix: Solid — Date Prep: 06.03.2020
MB Sample Id: 7704723-1-BLK — LCS Sample Id: 7704723-1-BKS — LCSD Sample Id: 7704723-1-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	0.0949	95	0.100	100	70-130	5	35	mg/kg	06.03.2020 14:36	
Toluene	<0.00200	0.100	0.0987	99	0.103	103	70-130	4	35	mg/kg	06.03.2020 14:36	
Ethylbenzene	<0.00200	0.100	0.0947	95	0.0982	98	70-130	4	35	mg/kg	06.03.2020 14:36	
m,p-Xylenes	<0.00400	0.200	0.189	95	0.196	98	70-130	4	35	mg/kg	06.03.2020 14:36	
o-Xylene	<0.00200	0.100	0.0915	92	0.0951	95	70-130	4	35	mg/kg	06.03.2020 14:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		105		108		70-130	%	06.03.2020 14:36
4-Bromofluorobenzene	101		102		106		70-130	%	06.03.2020 14:36

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

QC Summary 662739

Etech Environmental & Safety Solution, Inc

Sarah Jhonston

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3127974 — Matrix: Solid — Date Prep: 06.03.2020
MB Sample Id: 7704763-1-BLK — LCS Sample Id: 7704763-1-BKS — LCSD Sample Id: 7704763-1-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	0.0882	88	0.0887	89	70-130	1	35	mg/kg	06.04.2020 01:14	
Toluene	<0.00200	0.100	0.0885	89	0.0912	91	70-130	3	35	mg/kg	06.04.2020 01:14	
Ethylbenzene	<0.00200	0.100	0.0824	82	0.0861	86	70-130	4	35	mg/kg	06.04.2020 01:14	
m,p-Xylenes	<0.00400	0.200	0.163	82	0.170	85	70-130	4	35	mg/kg	06.04.2020 01:14	
o-Xylene	<0.00200	0.100	0.0811	81	0.0848	85	70-130	4	35	mg/kg	06.04.2020 01:14	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		105		104		70-130	%	06.04.2020 01:14
4-Bromofluorobenzene	106		97		102		70-130	%	06.04.2020 01:14

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3127371 — Matrix: Soil — Date Prep: 05.28.2020
Parent Sample Id: 662739-001 — MS Sample Id: 662739-001 S — MSD Sample Id: 662739-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0901	91	0.0859	86	70-130	5	35	mg/kg	05.29.2020 03:44	
Toluene	<0.00199	0.0994	0.0540	54	0.0518	52	70-130	4	35	mg/kg	05.29.2020 03:44	X
Ethylbenzene	<0.00199	0.0994	0.0563	57	0.0537	54	70-130	5	35	mg/kg	05.29.2020 03:44	X
m,p-Xylenes	<0.00398	0.199	0.113	57	0.108	54	70-130	5	35	mg/kg	05.29.2020 03:44	X
o-Xylene	<0.00199	0.0994	0.0811	82	0.0787	79	70-130	3	35	mg/kg	05.29.2020 03:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		99		70-130	%	05.29.2020 03:44
4-Bromofluorobenzene	113		106		70-130	%	05.29.2020 03:44

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3127491 — Matrix: Soil — Date Prep: 05.29.2020
Parent Sample Id: 662739-021 — MS Sample Id: 662739-021 S — MSD Sample Id: 662739-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.115	114	0.134	134	70-130	15	35	mg/kg	05.29.2020 15:47	X
Toluene	<0.00202	0.101	0.116	115	0.130	130	70-130	11	35	mg/kg	05.29.2020 15:47	
Ethylbenzene	<0.00202	0.101	0.113	112	0.127	127	70-130	12	35	mg/kg	05.29.2020 15:47	
m,p-Xylenes	<0.00404	0.202	0.235	116	0.260	129	70-130	10	35	mg/kg	05.29.2020 15:47	
o-Xylene	<0.00202	0.101	0.113	112	0.127	127	70-130	12	35	mg/kg	05.29.2020 15:47	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		117		70-130	%	05.29.2020 15:47
4-Bromofluorobenzene	125		132	**	70-130	%	05.29.2020 15:47

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

QC Summary 662739

Etech Environmental & Safety Solution, Inc

Sarah Jhonston

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3127693 — Matrix: Soil — Date Prep: 06.02.2020
Parent Sample Id: 663034-001 — MS Sample Id: 663034-001 S — MSD Sample Id: 663034-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0997	101	0.0914	92	70-130	9	35	mg/kg	06.02.2020 09:57	
Toluene	0.00235	0.0992	0.105	103	0.0968	95	70-130	8	35	mg/kg	06.02.2020 09:57	
Ethylbenzene	<0.00198	0.0992	0.0940	95	0.0845	85	70-130	11	35	mg/kg	06.02.2020 09:57	
m,p-Xylenes	<0.00397	0.198	0.190	96	0.172	87	70-130	10	35	mg/kg	06.02.2020 09:57	
o-Xylene	<0.00198	0.0992	0.0916	92	0.0834	84	70-130	9	35	mg/kg	06.02.2020 09:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		102		70-130	%	06.02.2020 09:57
4-Bromofluorobenzene	113		112		70-130	%	06.02.2020 09:57

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3127903 — Matrix: Soil — Date Prep: 06.03.2020
Parent Sample Id: 663283-001 — MS Sample Id: 663283-001 S — MSD Sample Id: 663283-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0745	75	0.0950	95	70-130	24	35	mg/kg	06.03.2020 15:17	
Toluene	<0.00199	0.0996	0.0575	58	0.0897	90	70-130	44	35	mg/kg	06.03.2020 15:17	XF
Ethylbenzene	<0.00199	0.0996	0.0364	37	0.0772	77	70-130	72	35	mg/kg	06.03.2020 15:17	XF
m,p-Xylenes	<0.00398	0.199	0.0712	36	0.153	77	70-130	73	35	mg/kg	06.03.2020 15:17	XF
o-Xylene	<0.00199	0.0996	0.0358	36	0.0739	74	70-130	69	35	mg/kg	06.03.2020 15:17	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		110		70-130	%	06.03.2020 15:17
4-Bromofluorobenzene	104		102		70-130	%	06.03.2020 15:17

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3127974 — Matrix: Soil — Date Prep: 06.03.2020
Parent Sample Id: 662904-002 — MS Sample Id: 662904-002 S — MSD Sample Id: 662904-002 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	0.0742	74	0.0696	70	70-130	6	35	mg/kg	06.04.2020 01:55	
Toluene	<0.00199	0.0996	0.0793	80	0.0746	75	70-130	6	35	mg/kg	06.04.2020 01:55	
Ethylbenzene	<0.00199	0.0996	0.0787	79	0.0778	78	70-130	1	35	mg/kg	06.04.2020 01:55	
m,p-Xylenes	<0.00398	0.199	0.156	78	0.152	77	70-130	3	35	mg/kg	06.04.2020 01:55	
o-Xylene	<0.00199	0.0996	0.0785	79	0.0769	78	70-130	2	35	mg/kg	06.04.2020 01:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		107		70-130	%	06.04.2020 01:55
4-Bromofluorobenzene	110		106		70-130	%	06.04.2020 01:55

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

Chain of Custody

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

Work Order No: 12739

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

Work Order Comments

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

Project Name:	Sarah Thonston	Turn Around	
Project Number:	12477	Routine:	☐
Project Location		Rush:	☐
Sampler's Name:	Lindsey Salgado	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	0.2/0.3	Thermometer ID	D9
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.3
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

Preservative Codes

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

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
EW - Surf		5/27/20		Surf		X	X	X		
EW - 1'		5/27/20		1'		X	X	X		
NW1 - Surf		5/27/20		Surf		X	X	X		
NW1 - 1'		5/27/20		1'		X	X	X		
NW2 - Surf		5/27/20		Surf		X	X	X		
NW2 - 1'		5/27/20		1'		X	X	X		
NW3 - Surf		5/27/20		Surf		X	X	X		
NW3 - 1'		5/27/20		1'		X	X	X		
WW - Surf		5/27/20		Surf		X	X	X		
WW - 1		5/27/20		1'		X	X	X		

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

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		Teresa Armendariz	5/27/20	2 Teresa Armendariz		5/28 1050
3				4		
5				6		

Revised Date 101419 Rev. 2019.1

Chain of Custody

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

Work Order No: 6b 2734

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

Work Order Comments

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

Project Name:	Sarah Thonston	Turn Around	
Project Number:	12477	Routine:	☐
Project Location		Rush:	☐
Sampler's Name:	Lindsey Salgado	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temperature (°C):	0.4/0.3	Temp Blank:	Yes (No)	Wet Ice: (Yes) No
Received Intact:	(Yes) No	Thermometer ID		LG
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:		-0.3
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
SW1- Surf		5/27/20				X	X	X	
SW1 - 1'		5/27/20				X	X	X	
SW2- Surf		5/27/20				X	X	X	
SW2 - 1'		5/27/20				X	X	X	
SW 3- Surf		5/27/20				X	X	X	
SW3 - 1'		5/27/20				X	X	X	

Preservative Codes

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

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

Sample Comments

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		Teresa Armendariz	5/27/20	2 Teresa Armendariz		5/28
3				4		
5				6		1050

Revised Date 101419 Rev. 2019.1

Chain of Custody

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

Work Order No: 604 7739

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

Work Order Comments

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

Project Name:	Sarah Thonston	Turn Around	
Project Number:	12477	Routine:	☐
Project Location		Rush:	☐
Sampler's Name:	Lindsey Salgado	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temperature (°C):	0.4/0.3	Temp Blank: Yes (No)	Wet Ice: (Yes) No
Received Intact:	(Yes) No	Thermometer ID	8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.3
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
Sp1 - Surf		5/27/20		Surf		X	X	X	
Sp1 - 1'		5/27/20		1'		X	X	X	
Sp2 - Surf		5/27/20		Surf		X	X	X	
Sp2 - 1'		5/27/20		1'		X	X	X	
Sp3 - Surf		5/27/20		Surf		X	X	X	
Sp3 - 1'		5/27/20		1'		X	X	X	
Sp4 - Surf		5/27/20		Surf		X	X	X	
Sp4 - 1'		5/27/20		1'		X	X	X	
Sp5 - Surf		5/27/20		Surf		X	X	X	
Sp5 - 1'		5/27/20		1'		X	X	X	

Preservative Codes

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

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

Sample Comments

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Teresa Armendarez	5/27/20	2 Teresa Armendarez		5/28
3			4		1050
5			6		

Revised Date 101419 Rev. 2019.1

ORIGIN ID:HOBA (575) 392-7550
** MAIL SERVICES ETC, LLC
4008 N GRIMES

HOBBS, NM 88240
UNITED STATES US

SHIP DATE: 27MAY20
ACTWGT: 12.00 LB MAN
CAD: 0909328/CAFE3211
DIMS: 13x10x9 IN
BILL RECIPIENT

TO XENCO LABORATORIES HOLD FOR PICK UP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH
MIDLAND TX 79711
(432) 563-1800
INV:
PO:
REF:
DEPT:

FedEx Express
J181118060501uv

TRK# 0201 4705 2523 6950

41 MAFA

THU - 28 MAY HOLD
STANDARD OVERNIGHT
HLD
MAFA
TX-US LBB

Part # 156148-434 RIT EXP 01/21

551C3/2925/104C

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 05.28.2020 10.50.00 AM

Work Order #: 662739

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

Temperature Measuring device used : R9

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.3	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	BTEX was in bulk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**N/A**	
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 05.28.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 06.02.2020
Jessica Kramer

Appendix D
Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: East	
Photo Description: Northern edge of the spill inside the containment.	

Photo Number: 2	
Photo Direction: West	
Photo Description: Closeup of spill area around tanks.	

Photographic Log

Photo Number: 3	
Photo Direction: West	
Photo Description: Spill area on the northern side of containment.	

Photo Number: 4	
Photo Direction: North	
Photo Description: NE corner of spill inside containment.	

Photographic Log

Photo Number: 5	
Photo Direction: South	
Photo Description: Spill area to the north of tanks.	

Photo Number: 6	
Photo Direction: South	
Photo Description: Spill area around tanks.	