

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

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

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

Incident ID	nRM 2012164856
District RP	
Facility ID	39031
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Centennial Resource Development	OGRID: 372165
Contact Name: Jamon Hohensee	Contact Telephone: 432-241-4283
Contact email: jamon.hohensee@cdevinc.com	Incident# nRM 2012164856
Contact mailing address: 500 W Illinois Ave Suite 500, Midland TX, 79705	

### Location of Release Source

Latitude 32.22384 \_\_\_\_\_ Longitude -103.46814 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Pirate State CTB 1	Site Type: Tank Battery
Date Release Discovered: 4/26/2020	API# 3002545777

Unit Letter	Section	Township	Range	County
A	16	24S	34E	Lea

*Corrected from initial C141 submitted on 4-27-20*

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe) H2S Scavenger	Volume/Weight Released (provide units) 2 gallons	Volume/Weight Recovered (provide units) 0 gallons

Cause of Release  
A malfunction in a check valve from separator allowed 2 gallons of H2S scavenger fluid to accumulate in the flare line. When operations began the scavenger fluid was moved to the tip of the flare and ignited. The gas lift compressor was down and the amount of time it was down could account for the amount of fluid in the line.

Incident ID	
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Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Resulted in a fire that was immediately put out. Approx. 10'x10' area.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice by phone was given on 4-27-2020 8:00am CST to Kerry Fortner by Jamon Hohensee and the API 3002545777 was used as reference.	

### Initial Response

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

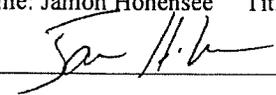
- The source of the release has been stopped.
- The impacted area has been secured to protect human health and the environment.
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been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

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Jamon Hohensee Title: Sr. Environmental Analyst

Signature:  Date: 5/1/2020

email: jamon.hohensee@cdevinc.com Telephone: 432-241-4283

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> 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 1/2-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 9.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

Incident ID	
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: \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	<i>NRM 2012164856</i>
District RP	
Facility ID	<i>39031</i>
Application ID	

### Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: *Jamon Hohensee* Title: *Sr. Environmental Analyst*  
 Signature: *[Signature]* Date: *10-6-20*  
 email: *jamon.hohensee@cdevinc.com* Telephone: *432-241-4283*

**OCD Only**

Received by: *Cristina Eads* Date: *10/6/2020*

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

Closure Approved by: *[Signature]* Date: *12/18/2020*  
 Printed Name: *Cristina Eads* Title: *Environmental Specialist*



## **CLOSURE REQUEST AND REMEDIATION SUMMARY REPORT**

**Centennial Resource Development, Inc.**  
**Pirate State CTB 1**  
**Lea County, New Mexico**  
**Unit Letter "A", Section 16, Township 24 South, Range 34 East**  
**Latitude 32.22384° North, Longitude 103.46814° West**  
**NMOCD Reference # NRH2012164856**

Prepared For:

**Centennial Resource Development, Inc.**  
500 W. Illinois Avenue Suite 500  
Midland, TX 79701

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**  
P.O. Box 62228  
Midland, Texas 79711

**September 2020**

A handwritten signature in blue ink that reads "Wesley A. Desilets".

Wesley A. Desilets  
Project Manager

A handwritten signature in blue ink that reads "Matthew Green".

Matthew Green, P.G.  
Senior Project Manager

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### FIGURES

- Figure 1 – Site Location Map
- Figure 2 – Confirmation Soil Sample Location Map

### TABLES

- Table 1 – Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil

### APPENDICES

- Appendix A – Photographic Documentation
- Appendix B – Analytical Reports
- Appendix C – Release Notification and Corrective Action (Form C-141)

## INTRODUCTION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Centennial Resource Development, Inc. (Centennial), has prepared this Closure Request and Remediation Summary Report for the Release Site known as Pirate State CTB 1. The legal description of the Release Site is Unit Letter "A", Section 16, Township 24 South, Range 34 East, in Lea County, New Mexico. The subject property is owned by The New Mexico State Land Office (NMSLO). The Release Site GPS coordinates are 32.22384° North and 103.46814° West. Please reference Figure 1 for the Site Location Map and Figure 2 for the Confirmation Soil Sample Location Map.

On April 26, 2020, Centennial discovered that a release had occurred due to a malfunction in a check valve from the separator, an accumulation of H<sub>2</sub>S Scavenger fluid occurred in the flare line and resulted in a small fire. Approximately two (2) gallons of H<sub>2</sub>S scavenger chemical was released with zero (0) recovered, resulting in a net loss of approximately two (2) gallons of H<sub>2</sub>S scavenger chemical. On April 27, 2020, Centennial filed a *Release Notification and Corrective Action Form* (Form C-141) with the New Mexico Oil Conservation Division (NMOCD) and NMSLO documenting the release. The Form C-141 is provided as Appendix C. Photographic documentation for the site are provided as Appendix A.

## NMOCD SITE CLASSIFICATION

A search of the groundwater database maintained by United States Geological Survey (USGS) did not identify any registered water wells within a quarter (1/4) mile of the Pirate State CTB 1 Release Site. A further search of the USGS database identified the closest registered water well is USGS Well #: 321402103274801 located approximately one (1) mile southwest of the Release Site. The average depth to groundwater for USGS Well #: 321402103274801 should be encountered at approximately sixty-nine (69) feet below ground surface (bgs). Based on the NMOCD site classification system, ten (10) points will be assigned to the subject area ranking as a result of this criterion. No water wells were observed within one thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the Pirate State CTB 1 Release Site as a result of this criterion. Based on this score, the soil remediation levels for a site with a ranking score of ten (10) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 100 mg/Kg (ppm)
- Chloride – 600 mg/Kg (ppm)

## SUMMARY OF SOIL REMEDIATION ACTIVITIES

On July 28, 2020, Etech commenced excavation activities at the Release Site utilizing a backhoe and manual means. Excavated soil was stockpiled on site awaiting disposal. Etech, on behalf of Centennial, collected four (4) composite confirmation soil samples (Bottomhole-1 @ 3", Bottomhole-2 @ 3", Bottomhole-3 @ 3", and Bottomhole-4 @ 3") from the excavated area. Soil samples were submitted to Permian Basin Environmental Lab, LP. (PBELAB) in Midland, Texas

and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) using EPA Method SW 846-8021B, Total Petroleum Hydrocarbons (TPH) using EPA Method SW 846-8015M, and chloride using EPA Method E 300.0. A review of laboratory analytical results indicated additional excavation activities were necessary in the area represented by Bottomhole-1 @ 3" due to elevated TPH concentrations and in the area represented by Bottomhole-4 @ 3" due to detectable BTEX concentrations. Please reference Figure 2 for site details and soil sampling locations.

On August 13, 2020, following additional excavation activities, two (2) composite confirmation soil samples (Bottomhole-1 @ 6" and Bottomhole-4 @ 6") were collected from the further excavated areas. The samples were submitted to PBELAB for BTEX and/or TPH analysis. Please reference Figure 2 for site details and soil sampling locations. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits.

Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil. Analytical reports are provided as Appendix B.

### **SOIL DISPOSAL AND BACKFILL ACTIVITIES**

On August 14, 2020, Etech transported the impacted stockpiled soil to the Sundance disposal facility in Lea County, NM for disposal.

On September 16, 2020, the excavated area was backfilled with non-impacted like soil from a local source and the site was contoured to fit the surrounding area.

### **SITE CLOSURE REQUEST**

Based on the analytical results, Centennial requests NMOCD and NMSLO grant Site Closure Status to the Pirate State CTB 1 incident.

### **LIMITATIONS**

Etech has prepared this Closure Request and Remediation Summary Report to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Etech has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech also 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 Centennial Resource Development, Inc. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Centennial Resource Development, Inc.

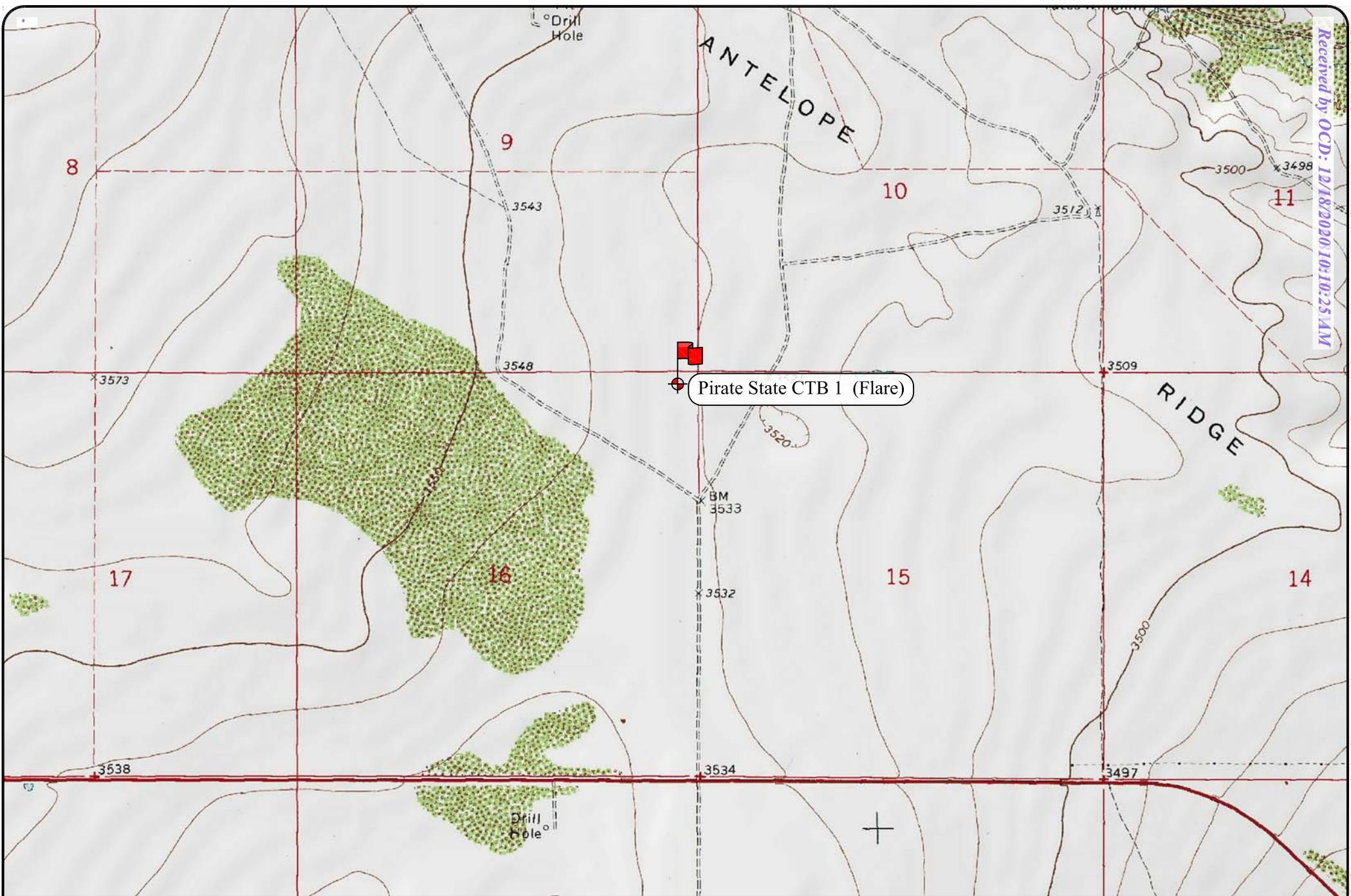
**DISTRIBUTION**

Copy 1: New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division, District 1  
1624 N. French Drive  
Hobbs, New Mexico 88210

Copy 2: Ryan Mann  
New Mexico State Land Office  
Remediation Specialist  
2827 N. Dal Paso Suite 117  
Hobbs, NM 88240

Copy 3: Jamon Hohensee  
Centennial Resource Development, Inc.  
500 W. Illinois Avenue Suite 500  
Midland, TX 79701

Copy 4: Etech Environmental & Safety Solutions, Inc.  
P.O. Box 62228  
Midland, TX 79711



Site - Pirate State CTB 1  
 Site Location Map  
 Centennial Resources Development, Inc.  
 Lea County, NM  
 N 32.224384°, W 103.467814°  
 September 2020

 = Site Location

Legend

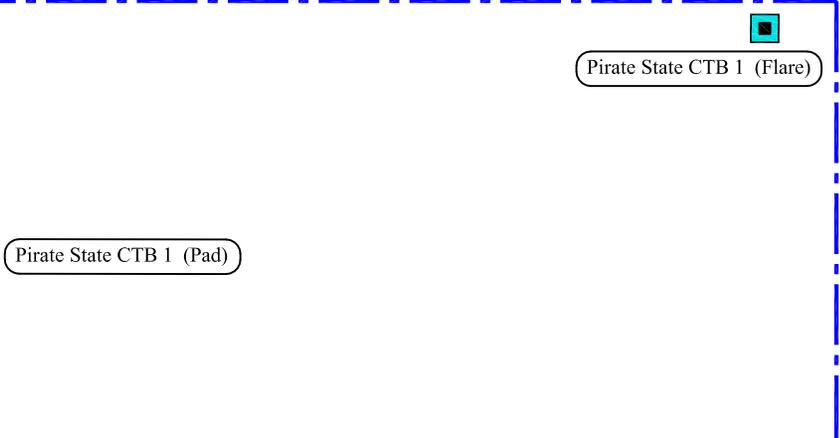
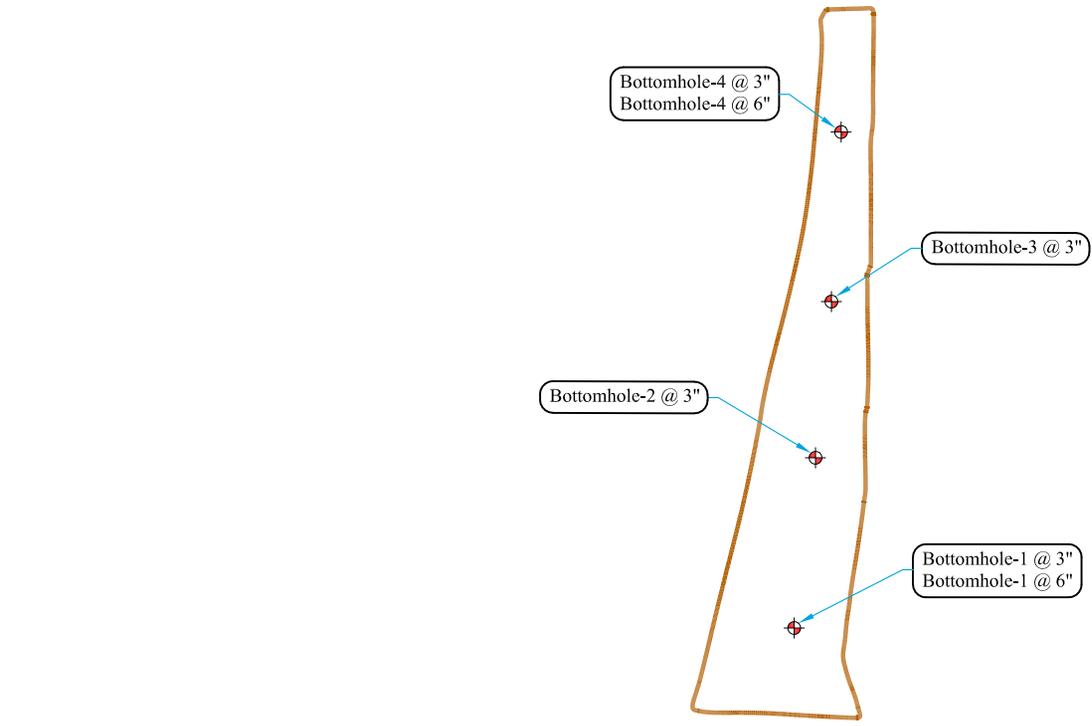
No Scale

**eTECH**  
 Environmental & Safety Solutions.



Job No.:  
 1226-12387

Figure 1



Site - Pirate State CTB 1  
 Confirmation Soil Sample Location Map  
 Centennial Resources Development, Inc.  
 Lea County, NM  
 N 32.224384°, W 103.467814°  
 September 2020

**Legend**

= Bottomhole Samples  
 = Flare  
 Excavation Perimeter  
 Site Perimeter

0 50 100  
 Feet

**ETECH**  
 Environmental & Safety Solutions.

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Job No.: <span style="font-size: large; font-weight: bold;">1226-12387</span>	<span style="font-size: large; font-weight: bold;">Figure 2</span>
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**TABLE 1**  
**CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL**  
**CENTENNIAL RESOURCE DEVELOPMENT, INC.**  
**PIRATE STATE CTB 1 RELEASE SITE**  
**LEA COUNTY, NEW MEXICO**

*All concentrations are reported in mg/Kg*

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021B						METHOD: SW 8015M					E 300.1
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C <sub>6</sub> -C <sub>12</sub>	TPH DRO C <sub>12</sub> -C <sub>28</sub>	TPH ORO C <sub>28</sub> -C <sub>35</sub>	TOTAL TPH C <sub>6</sub> -C <sub>35</sub>	CHLORIDE
Limits		10 mg/Kg						50 mg/Kg				100 mg/Kg	600 mg/Kg
<b>Bottom Hole Sample Results</b>													
<b>Bottomhole-1 @ 3"</b>	7/28/2020	ND	ND	ND	ND	ND	ND	ND	ND	1,790	425	<b>2,215</b>	187
<b>Bottomhole-1 @ 6"</b>	8/13/2020	-	-	-	-	-	-	-	ND	ND	ND	ND	36.8
<b>Bottomhole-2 @ 3"</b>	7/28/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.34
<b>Bottomhole-3 @ 3"</b>	7/28/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.77
<b>Bottomhole-4 @ 3"</b>	7/28/2020	ND	ND	0.00330	0.0178	0.00817	0.02597	0.02927	ND	ND	ND	ND	9.91
<b>Bottomhole-4 @ 6"</b>	8/13/2020	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-

**Bold and Yellow Highlighted indicates Analyte Above NMOCD Regulatory Limit**  
**ND - Analyte not Detected at or above the laboratory reporting limit**

**Project Name:** Pirate State CTB 1  
**Project No:** 12387

**Photographic Documentation**



**Project Name:** Pirate State CTB 1  
**Project No:** 12387

**Photographic Documentation**

<b>Photo No:</b> 3.	
<b>Direction Taken:</b> Northeast	
<b>Description:</b> View of the excavated area.	

<b>Photo No:</b> 4.	
<b>Direction Taken:</b> South	
<b>Description:</b> View of the excavated area.	

**Project Name:** Pirate State CTB 1  
**Project No:** 12387

**Photographic Documentation**

<b>Photo No:</b> 5.	
<b>Direction Taken:</b> North	
<b>Description:</b> View of the remediated area.	

<b>Photo No:</b> 6.	
<b>Direction Taken:</b> Northwest	
<b>Description:</b> View of the remediated area.	



# Certificate of Analysis Summary 668977

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

**Project Name: Pirate State 302H 401H**

**Project Id:** 12387  
**Contact:** Matthew Green  
**Project Location:** New Mexico

**Date Received in Lab:** Mon 08.03.2020 17:02  
**Report Date:** 08.10.2020 13:04  
**Project Manager:** Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	668977-001	668977-002	668977-003	668977-004		
	<i>Field Id:</i>	Bottomhole-1 @ 3"	Bottomhole-2 @ 3"	Bottomhole-3 @ 3"	Bottomhole-4 @ 3"		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	07.28.2020 13:00	07.28.2020 13:10	07.28.2020 13:20	07.28.2020 13:30		
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	08.06.2020 17:00	08.06.2020 17:00	08.06.2020 17:00	08.07.2020 14:00		
	<i>Analyzed:</i>	08.07.2020 08:36	08.07.2020 08:56	08.07.2020 09:17	08.08.2020 08:18		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		ND 0.00200	ND 0.00201	ND 0.00199	ND 0.00202		
Toluene		ND 0.00200	ND 0.00201	ND 0.00199	ND 0.00202		
Ethylbenzene		ND 0.00200	ND 0.00201	ND 0.00199	0.00330 0.00202		
m,p-Xylenes		ND 0.00399	ND 0.00402	ND 0.00398	0.0178 0.00404		
o-Xylene		ND 0.00200	ND 0.00201	ND 0.00199	0.00817 0.00202		
Total Xylenes		ND 0.00200	ND 0.00201	ND 0.00199	0.0260 0.00202		
Total BTEX		ND 0.00200	ND 0.00201	ND 0.00199	0.0293 0.00202		
<b>Chloride by EPA 300</b>	<i>Extracted:</i>	08.04.2020 10:45	08.04.2020 10:45	08.04.2020 10:45	08.04.2020 10:45		
	<i>Analyzed:</i>	08.04.2020 11:21	08.04.2020 11:26	08.04.2020 11:31	08.04.2020 11:37		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		187 4.96	7.34 4.99	7.77 5.05	9.91 5.00		
<b>TPH by SW8015 Mod</b>	<i>Extracted:</i>	08.04.2020 12:00	08.04.2020 12:00	08.04.2020 12:00	08.05.2020 12:00		
	<i>Analyzed:</i>	08.04.2020 20:04	08.04.2020 20:25	08.04.2020 20:46	08.05.2020 12:27		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		ND 50.0	ND 49.9	ND 49.9	ND 50.0		
Diesel Range Organics (DRO)		1790 50.0	ND 49.9	ND 49.9	ND 50.0		
Motor Oil Range Hydrocarbons (MRO)		425 50.0	ND 49.9	ND 49.9	ND 50.0		
Total TPH		2220 50.0	ND 49.9	ND 49.9	ND 50.0		

BRL - Below Reporting Limit

*Jessica Kramer*

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

# Analytical Report 668977

for

**Etech Environmental & Safety Solution, Inc**

**Project Manager: Matthew Green**

**Pirate State 302H 401H**

**12387**

**08.10.2020**

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-20-25), Arizona (AZ0809)

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



08.10.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **668977**  
**Pirate State 302H 401H**  
Project Address: New Mexico

**Matthew Green:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 668977. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 668977 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer". The signature is written in a cursive, slightly slanted style.

---

**Jessica Kramer**  
Project Manager

*A Small Business and Minority Company*

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



# Sample Cross Reference 668977

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

Pirate State 302H 401H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottomhole-1 @ 3"	S	07.28.2020 13:00		668977-001
Bottomhole-2 @ 3"	S	07.28.2020 13:10		668977-002
Bottomhole-3 @ 3"	S	07.28.2020 13:20		668977-003
Bottomhole-4 @ 3"	S	07.28.2020 13:30		668977-004



## CASE NARRATIVE

*Client Name: Etech Environmental & Safety Solution, Inc*

*Project Name: Pirate State 302H 401H*

Project ID: 12387  
Work Order Number(s): 668977

Report Date: 08.10.2020  
Date Received: 08.03.2020

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**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 668977

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

Pirate State 302H 401H

Sample Id: **Bottomhole-1 @ 3"** Matrix: Soil Date Received: 08.03.2020 17:02  
 Lab Sample Id: 668977-001 Date Collected: 07.28.2020 13:00  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: CHE % Moisture:  
 Analyst: CHE Date Prep: 08.04.2020 10:45 Basis: Wet Weight  
 Seq Number: 3133486

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	187	4.96	mg/kg	08.04.2020 11:21		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DVM % Moisture:  
 Analyst: ARM Date Prep: 08.04.2020 12:00 Basis: Wet Weight  
 Seq Number: 3133477

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	08.04.2020 20:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	1790	50.0	mg/kg	08.04.2020 20:04		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	425	50.0	mg/kg	08.04.2020 20:04		1
Total TPH	PHC635	2220	50.0	mg/kg	08.04.2020 20:04		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	08.04.2020 20:04	
o-Terphenyl	84-15-1	94	%	70-130	08.04.2020 20:04	



# Certificate of Analytical Results 668977

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

Pirate State 302H 401H

Sample Id: **Bottomhole-1 @ 3"**

Matrix: Soil

Date Received: 08.03.2020 17:02

Lab Sample Id: 668977-001

Date Collected: 07.28.2020 13:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.06.2020 17:00

Basis: Wet Weight

Seq Number: 3133866

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	08.07.2020 08:36	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	08.07.2020 08:36	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	08.07.2020 08:36	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	08.07.2020 08:36	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	08.07.2020 08:36	U	1
Total Xylenes	1330-20-7	ND	0.00200	mg/kg	08.07.2020 08:36	U	1
Total BTEX		ND	0.00200	mg/kg	08.07.2020 08:36	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	117	%	70-130	08.07.2020 08:36		
1,4-Difluorobenzene	540-36-3	109	%	70-130	08.07.2020 08:36		



# Certificate of Analytical Results 668977

**Etech Environmental & Safety Solution, Inc, Midland, TX**  
 Pirate State 302H 401H

Sample Id: **Bottomhole-2 @ 3"** Matrix: Soil Date Received: 08.03.2020 17:02  
 Lab Sample Id: 668977-002 Date Collected: 07.28.2020 13:10  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: CHE % Moisture:  
 Analyst: CHE Date Prep: 08.04.2020 10:45 Basis: Wet Weight  
 Seq Number: 3133486

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.34	4.99	mg/kg	08.04.2020 11:26		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DVM % Moisture:  
 Analyst: ARM Date Prep: 08.04.2020 12:00 Basis: Wet Weight  
 Seq Number: 3133477

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	08.04.2020 20:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	08.04.2020 20:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	08.04.2020 20:25	U	1
Total TPH	PHC635	ND	49.9	mg/kg	08.04.2020 20:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	08.04.2020 20:25	
o-Terphenyl	84-15-1	83	%	70-130	08.04.2020 20:25	



# Certificate of Analytical Results 668977

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

Pirate State 302H 401H

Sample Id: **Bottomhole-2 @ 3"**

Matrix: Soil

Date Received: 08.03.2020 17:02

Lab Sample Id: 668977-002

Date Collected: 07.28.2020 13:10

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.06.2020 17:00

Basis: Wet Weight

Seq Number: 3133866

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00201	mg/kg	08.07.2020 08:56	U	1
Toluene	108-88-3	ND	0.00201	mg/kg	08.07.2020 08:56	U	1
Ethylbenzene	100-41-4	ND	0.00201	mg/kg	08.07.2020 08:56	U	1
m,p-Xylenes	179601-23-1	ND	0.00402	mg/kg	08.07.2020 08:56	U	1
o-Xylene	95-47-6	ND	0.00201	mg/kg	08.07.2020 08:56	U	1
Total Xylenes	1330-20-7	ND	0.00201	mg/kg	08.07.2020 08:56	U	1
Total BTEX		ND	0.00201	mg/kg	08.07.2020 08:56	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	119	%	70-130	08.07.2020 08:56		
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.07.2020 08:56		



# Certificate of Analytical Results 668977

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

Pirate State 302H 401H

Sample Id: **Bottomhole-3 @ 3"**

Matrix: Soil

Date Received: 08.03.2020 17:02

Lab Sample Id: 668977-003

Date Collected: 07.28.2020 13:20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.04.2020 10:45

Basis: Wet Weight

Seq Number: 3133486

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.77	5.05	mg/kg	08.04.2020 11:31		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 08.04.2020 12:00

Basis: Wet Weight

Seq Number: 3133477

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	08.04.2020 20:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	08.04.2020 20:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	08.04.2020 20:46	U	1
Total TPH	PHC635	ND	49.9	mg/kg	08.04.2020 20:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	08.04.2020 20:46	
o-Terphenyl	84-15-1	78	%	70-130	08.04.2020 20:46	



# Certificate of Analytical Results 668977

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

Pirate State 302H 401H

Sample Id: **Bottomhole-3 @ 3"**

Matrix: Soil

Date Received: 08.03.2020 17:02

Lab Sample Id: 668977-003

Date Collected: 07.28.2020 13:20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.06.2020 17:00

Basis: Wet Weight

Seq Number: 3133866

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00199	mg/kg	08.07.2020 09:17	U	1
Toluene	108-88-3	ND	0.00199	mg/kg	08.07.2020 09:17	U	1
Ethylbenzene	100-41-4	ND	0.00199	mg/kg	08.07.2020 09:17	U	1
m,p-Xylenes	179601-23-1	ND	0.00398	mg/kg	08.07.2020 09:17	U	1
o-Xylene	95-47-6	ND	0.00199	mg/kg	08.07.2020 09:17	U	1
Total Xylenes	1330-20-7	ND	0.00199	mg/kg	08.07.2020 09:17	U	1
Total BTEX		ND	0.00199	mg/kg	08.07.2020 09:17	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
1,4-Difluorobenzene	540-36-3	109	%	70-130	08.07.2020 09:17		
4-Bromofluorobenzene	460-00-4	116	%	70-130	08.07.2020 09:17		



# Certificate of Analytical Results 668977

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

Pirate State 302H 401H

Sample Id: **Bottomhole-4 @ 3"**

Matrix: Soil

Date Received: 08.03.2020 17:02

Lab Sample Id: 668977-004

Date Collected: 07.28.2020 13:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 08.04.2020 10:45

Basis: Wet Weight

Seq Number: 3133486

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.91	5.00	mg/kg	08.04.2020 11:37		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 08.05.2020 12:00

Basis: Wet Weight

Seq Number: 3133741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	08.05.2020 12:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	08.05.2020 12:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	08.05.2020 12:27	U	1
Total TPH	PHC635	ND	50.0	mg/kg	08.05.2020 12:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	08.05.2020 12:27	
o-Terphenyl	84-15-1	85	%	70-130	08.05.2020 12:27	



# Certificate of Analytical Results 668977

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

Pirate State 302H 401H

Sample Id: **Bottomhole-4 @ 3"**

Matrix: Soil

Date Received: 08.03.2020 17:02

Lab Sample Id: 668977-004

Date Collected: 07.28.2020 13:30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.07.2020 14:00

Basis: Wet Weight

Seq Number: 3133951

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00202	mg/kg	08.08.2020 08:18	U	1
Toluene	108-88-3	ND	0.00202	mg/kg	08.08.2020 08:18	U	1
<b>Ethylbenzene</b>	100-41-4	<b>0.00330</b>	0.00202	mg/kg	08.08.2020 08:18		1
<b>m,p-Xylenes</b>	179601-23-1	<b>0.0178</b>	0.00404	mg/kg	08.08.2020 08:18		1
<b>o-Xylene</b>	95-47-6	<b>0.00817</b>	0.00202	mg/kg	08.08.2020 08:18		1
<b>Total Xylenes</b>	1330-20-7	<b>0.0260</b>	0.00202	mg/kg	08.08.2020 08:18		1
<b>Total BTEX</b>		<b>0.0293</b>	0.00202	mg/kg	08.08.2020 08:18		1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.08.2020 08:18		
1,4-Difluorobenzene	540-36-3	102	%	70-130	08.08.2020 08:18		





# QC Summary 668977

## Etech Environmental & Safety Solution, Inc Pirate State 302H 401H

**Analytical Method: Chloride by EPA 300**

Seq Number: 3133486  
MB Sample Id: 7708666-1-BLK

Matrix: Solid  
LCS Sample Id: 7708666-1-BKS

Prep Method: E300P  
Date Prep: 08.04.2020  
LCSD Sample Id: 7708666-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	267	107	268	107	90-110	0	20	mg/kg	08.04.2020 10:55	

**Analytical Method: Chloride by EPA 300**

Seq Number: 3133486  
Parent Sample Id: 668967-001

Matrix: Soil  
MS Sample Id: 668967-001 S

Prep Method: E300P  
Date Prep: 08.04.2020  
MSD Sample Id: 668967-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	297	2510	3050	110	3040	109	90-110	0	20	mg/kg	08.04.2020 11:10	

**Analytical Method: Chloride by EPA 300**

Seq Number: 3133486  
Parent Sample Id: 668986-006

Matrix: Soil  
MS Sample Id: 668986-006 S

Prep Method: E300P  
Date Prep: 08.04.2020  
MSD Sample Id: 668986-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	24.7	253	312	114	312	114	90-110	0	20	mg/kg	08.04.2020 12:24	X

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3133477  
MB Sample Id: 7708673-1-BLK

Matrix: Solid  
LCS Sample Id: 7708673-1-BKS

Prep Method: SW8015P  
Date Prep: 08.04.2020  
LCSD Sample Id: 7708673-1-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	854	85	836	84	70-130	2	20	mg/kg	08.04.2020 12:11	
Diesel Range Organics (DRO)	<50.0	1000	896	90	833	83	70-130	7	20	mg/kg	08.04.2020 12:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	89		95		88		70-130	%	08.04.2020 12:11
o-Terphenyl	86		91		85		70-130	%	08.04.2020 12:11

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3133741  
MB Sample Id: 7708797-1-BLK

Matrix: Solid  
LCS Sample Id: 7708797-1-BKS

Prep Method: SW8015P  
Date Prep: 08.05.2020  
LCSD Sample Id: 7708797-1-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	896	90	883	88	70-130	1	20	mg/kg	08.05.2020 11:44	
Diesel Range Organics (DRO)	<50.0	1000	932	93	924	92	70-130	1	20	mg/kg	08.05.2020 11:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		105		108		70-130	%	08.05.2020 11:44
o-Terphenyl	100		101		101		70-130	%	08.05.2020 11:44

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

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

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

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



**Etech Environmental & Safety Solution, Inc**  
Pirate State 302H 401H

**Analytical Method:** TPH by SW8015 Mod  
Seq Number: 3133477

Matrix: Solid  
MB Sample Id: 7708673-1-BLK

Prep Method: SW8015P  
Date Prep: 08.04.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	ND	mg/kg	08.04.2020 11:50	

**Analytical Method:** TPH by SW8015 Mod  
Seq Number: 3133741

Matrix: Solid  
MB Sample Id: 7708797-1-BLK

Prep Method: SW8015P  
Date Prep: 08.05.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	ND	mg/kg	08.05.2020 11:23	

**Analytical Method:** TPH by SW8015 Mod  
Seq Number: 3133477  
Parent Sample Id: 668877-001

Matrix: Soil  
MS Sample Id: 668877-001 S

Prep Method: SW8015P  
Date Prep: 08.04.2020  
MSD Sample Id: 668877-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	826	83	857	86	70-130	4	20	mg/kg	08.04.2020 13:37	
Diesel Range Organics (DRO)	<49.9	997	837	84	861	86	70-130	3	20	mg/kg	08.04.2020 13:37	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		92		70-130	%	08.04.2020 13:37
o-Terphenyl	86		85		70-130	%	08.04.2020 13:37

**Analytical Method:** TPH by SW8015 Mod  
Seq Number: 3133741  
Parent Sample Id: 668977-004

Matrix: Soil  
MS Sample Id: 668977-004 S

Prep Method: SW8015P  
Date Prep: 08.05.2020  
MSD Sample Id: 668977-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	826	83	847	85	70-130	3	20	mg/kg	08.05.2020 12:48	
Diesel Range Organics (DRO)	<49.9	997	856	86	866	87	70-130	1	20	mg/kg	08.05.2020 12:48	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		94		70-130	%	08.05.2020 12:48
o-Terphenyl	84		85		70-130	%	08.05.2020 12:48

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

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

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

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



**Etech Environmental & Safety Solution, Inc**  
Pirate State 302H 401H

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3133866

Matrix: Solid

Prep Method: SW5035A

Date Prep: 08.06.2020

MB Sample Id: 7708950-1-BLK

LCS Sample Id: 7708950-1-BKS

LCSD Sample Id: 7708950-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0972	97	0.102	102	70-130	5	35	mg/kg	08.06.2020 23:25	
Toluene	<0.00200	0.100	0.0902	90	0.0938	94	70-130	4	35	mg/kg	08.06.2020 23:25	
Ethylbenzene	<0.00200	0.100	0.0870	87	0.0908	91	70-130	4	35	mg/kg	08.06.2020 23:25	
m,p-Xylenes	<0.00400	0.200	0.171	86	0.177	89	70-130	3	35	mg/kg	08.06.2020 23:25	
o-Xylene	<0.00200	0.100	0.0856	86	0.0890	89	70-130	4	35	mg/kg	08.06.2020 23:25	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		101		99		70-130	%	08.06.2020 23:25
4-Bromofluorobenzene	104		97		93		70-130	%	08.06.2020 23:25

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3133951

Matrix: Solid

Prep Method: SW5035A

Date Prep: 08.07.2020

MB Sample Id: 7709017-1-BLK

LCS Sample Id: 7709017-1-BKS

LCSD Sample Id: 7709017-1-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	0.0849	85	0.0829	83	70-130	2	35	mg/kg	08.08.2020 01:10	
Toluene	<0.00200	0.100	0.0857	86	0.0838	84	70-130	2	35	mg/kg	08.08.2020 01:10	
Ethylbenzene	<0.00200	0.100	0.0835	84	0.0808	81	70-130	3	35	mg/kg	08.08.2020 01:10	
m,p-Xylenes	<0.00400	0.200	0.167	84	0.162	81	70-130	3	35	mg/kg	08.08.2020 01:10	
o-Xylene	<0.00200	0.100	0.0859	86	0.0832	83	70-130	3	35	mg/kg	08.08.2020 01:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		101		100		70-130	%	08.08.2020 01:10
4-Bromofluorobenzene	103		101		100		70-130	%	08.08.2020 01:10

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3133866

Matrix: Soil

Prep Method: SW5035A

Date Prep: 08.06.2020

Parent Sample Id: 668877-003

MS Sample Id: 668877-003 S

MSD Sample Id: 668877-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0967	97	0.0838	84	70-130	14	35	mg/kg	08.07.2020 00:06	
Toluene	<0.00200	0.100	0.0909	91	0.0798	80	70-130	13	35	mg/kg	08.07.2020 00:06	
Ethylbenzene	<0.00200	0.100	0.0890	89	0.0783	79	70-130	13	35	mg/kg	08.07.2020 00:06	
m,p-Xylenes	<0.00401	0.200	0.176	88	0.156	78	70-130	12	35	mg/kg	08.07.2020 00:06	
o-Xylene	<0.00200	0.100	0.0878	88	0.0773	78	70-130	13	35	mg/kg	08.07.2020 00:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		101		70-130	%	08.07.2020 00:06
4-Bromofluorobenzene	106		99		70-130	%	08.07.2020 00:06

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

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

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

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



Etech Environmental & Safety Solution, Inc

Pirate State 302H 401H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3133951

Parent Sample Id: 669481-061

Matrix: Soil

MS Sample Id: 669481-061 S

Prep Method: SW5035A

Date Prep: 08.07.2020

MSD Sample Id: 669481-061 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0728	73	0.0685	69	70-130	6	35	mg/kg	08.08.2020 01:51	X
Toluene	<0.00200	0.0998	0.0703	70	0.0659	66	70-130	6	35	mg/kg	08.08.2020 01:51	X
Ethylbenzene	<0.00200	0.0998	0.0680	68	0.0643	65	70-130	6	35	mg/kg	08.08.2020 01:51	X
m,p-Xylenes	<0.00399	0.200	0.133	67	0.125	63	70-130	6	35	mg/kg	08.08.2020 01:51	X
o-Xylene	<0.00200	0.0998	0.0681	68	0.0645	65	70-130	5	35	mg/kg	08.08.2020 01:51	X

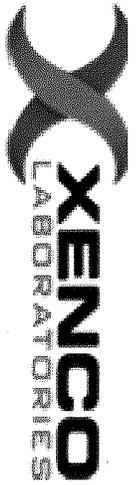
Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		102		70-130	%	08.08.2020 01:51
4-Bromofluorobenzene	103		102		70-130	%	08.08.2020 01:51

MS/MSD Percent Recovery  
 Relative Percent Difference  
 LCS/LCSD Recovery  
 Log Difference

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

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

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



**Chain of Custody**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334  
 Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900  
 Tampa, FL (813) 820-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701  
 Atlanta, GA (770) 449-8800

Work Order No: 1089777

www.xenco.com Page 1 of 1

Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200	Email:	Matt@etechnv.com

<b>Work Order Comments</b>	
Program: UST/PST <input type="checkbox"/> PRF <input type="checkbox"/> Brownfield <input type="checkbox"/> RRD <input checked="" type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level: <input type="checkbox"/> Level <input type="checkbox"/> PST/UST <input type="checkbox"/> TRF <input type="checkbox"/> Level <input checked="" type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: contract <input type="checkbox"/>	

Project Name:	Pirate State 302H 401H	Turn Around	<input type="checkbox"/>
Project Number:	12387	CONTRACT	<input type="checkbox"/>
Project Location:	New Mexico	Rush:	<input type="checkbox"/>
Sampler's Name:	Joel Mendoza	Due Date:	
PO #:		AFE# or det# or LOE #CC#	
<b>SAMPLE RECEIPT</b>	Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID: <u>123</u>
Temperature (°C):	<u>23.1</u>	Correction Factor:	<u>0.0</u>
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Total Containers:	<u>1</u>
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code			Sample Comments
					TPH 8015M	BTEX 8021B	Chlorides E300	
Bottomhole-1 @ 3"	S	7/28/2020	1300		X	X	X	
Bottomhole-2 @ 3"	S	7/28/2020	1310		X	X	X	
Bottomhole-3 @ 3"	S	7/28/2020	1320		X	X	X	
Bottomhole-4 @ 3"	S	7/28/2020	1330		X	X	X	
	S							
	S							
	S							
	S							
	S							
	S							
	S							
	S							

NORM TAT circle one : 7 day, 5 day, Rush 3 day

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>[Signature]</u>	<u>8/3/20</u>			

# Eurofins Xenco, LLC

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Etech Environmental & Safety Solution, I

**Date/ Time Received:** 08.03.2020 05.02.00 PM

**Work Order #:** 668977

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

**Temperature Measuring device used :** IR-8

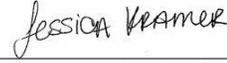
Sample Receipt Checklist	Comments	
#1 *Temperature of cooler(s)?	1.9	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6* Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	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:**  Date: 08.04.2020  
 Brianna Teel

**Checklist reviewed by:**  Date: 08.04.2020  
 Jessica Kramer



# Certificate of Analysis Summary 670338

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

**Project Name: Pirate State 302H 401H**

**Project Id:** 12387  
**Contact:** Matthew Green  
**Project Location:** New Mexico

**Date Received in Lab:** Tue 08.18.2020 16:15  
**Report Date:** 09.17.2020 15:49  
**Project Manager:** Jessica Kramer

<b>Analysis Requested</b>	<b>Lab Id:</b>	670338-001	670338-002			
	<b>Field Id:</b>	Bottomhole-1 @ 6"	Bottomhole-4 @ 6"			
	<b>Depth:</b>	6- In	6- In			
	<b>Matrix:</b>	SOIL	SOIL			
	<b>Sampled:</b>	08.13.2020 11:10	08.13.2020 11:15			
<b>BTEX by EPA 8021B</b>	<b>Extracted:</b>		08.19.2020 15:30			
	<b>Analyzed:</b>		08.20.2020 05:48			
	<b>Units/RL:</b>		mg/kg RL			
Benzene			ND 0.00201			
Toluene			ND 0.00201			
Ethylbenzene			ND 0.00201			
m,p-Xylenes			ND 0.00402			
o-Xylene			ND 0.00201			
Total Xylenes			ND 0.00201			
Total BTEX			ND 0.00201			
<b>Chloride by EPA 300</b>	<b>Extracted:</b>	08.19.2020 16:35				
	<b>Analyzed:</b>	08.19.2020 22:21				
	<b>Units/RL:</b>	mg/kg RL				
Chloride		36.8 4.96				
<b>TPH by SW8015 Mod</b>	<b>Extracted:</b>	08.19.2020 12:00				
	<b>Analyzed:</b>	08.19.2020 21:13				
	<b>Units/RL:</b>	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		ND 49.9				
Diesel Range Organics (DRO)		ND 49.9				
Motor Oil Range Hydrocarbons (MRO)		ND 49.9				
Total TPH		ND 49.9				

BRL - Below Reporting Limit

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

*Jessica Kramer*

# Analytical Report 670338

for

**Etech Environmental & Safety Solution, Inc**

**Project Manager: Matthew Green**

**Pirate State 302H 401H**

**12387**

**09.17.2020**

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



09.17.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **670338**  
**Pirate State 302H 401H**  
Project Address: New Mexico

**Matthew Green:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 670338. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 670338 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer". The signature is written in a cursive, slightly slanted style.

---

**Jessica Kramer**  
Project Manager

*A Small Business and Minority Company*

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



# Sample Cross Reference 670338

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

Pirate State 302H 401H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottomhole-1 @ 6"	S	08.13.2020 11:10	6 In	670338-001
Bottomhole-4 @ 6"	S	08.13.2020 11:15	6 In	670338-002



## CASE NARRATIVE

*Client Name: Etech Environmental & Safety Solution, Inc*

*Project Name: Pirate State 302H 401H*

Project ID: 12387  
Work Order Number(s): 670338

Report Date: 09.17.2020  
Date Received: 08.18.2020

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**Sample receipt non conformances and comments:**

V1.001 Revision (client email) Corrected sample depths

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 670338

**Etech Environmental & Safety Solution, Inc, Midland, TX**  
 Pirate State 302H 401H

Sample Id: **Bottomhole-1 @ 6"** Matrix: Soil Date Received: 08.18.2020 16:15  
 Lab Sample Id: 670338-001 Date Collected: 08.13.2020 11:10 Sample Depth: 6 In  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: CHE % Moisture:  
 Analyst: CHE Date Prep: 08.19.2020 16:35 Basis: Wet Weight  
 Seq Number: 3135041

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	36.8	4.96	mg/kg	08.19.2020 22:21		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DVM % Moisture:  
 Analyst: ARM Date Prep: 08.19.2020 12:00 Basis: Wet Weight  
 Seq Number: 3135110

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	08.19.2020 21:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	08.19.2020 21:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	08.19.2020 21:13	U	1
Total TPH	PHC635	ND	49.9	mg/kg	08.19.2020 21:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	08.19.2020 21:13	
o-Terphenyl	84-15-1	86	%	70-130	08.19.2020 21:13	



# Certificate of Analytical Results 670338

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

Pirate State 302H 401H

Sample Id: **Bottomhole-4 @ 6"** Matrix: Soil Date Received: 08.18.2020 16:15  
 Lab Sample Id: 670338-002 Date Collected: 08.13.2020 11:15 Sample Depth: 6 In  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: AMF % Moisture:  
 Analyst: AMF Date Prep: 08.19.2020 15:30 Basis: Wet Weight  
 Seq Number: 3135087

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00201	mg/kg	08.20.2020 05:48	U	1
Toluene	108-88-3	ND	0.00201	mg/kg	08.20.2020 05:48	U	1
Ethylbenzene	100-41-4	ND	0.00201	mg/kg	08.20.2020 05:48	U	1
m,p-Xylenes	179601-23-1	ND	0.00402	mg/kg	08.20.2020 05:48	U	1
o-Xylene	95-47-6	ND	0.00201	mg/kg	08.20.2020 05:48	U	1
Total Xylenes	1330-20-7	ND	0.00201	mg/kg	08.20.2020 05:48	U	1
Total BTEX		ND	0.00201	mg/kg	08.20.2020 05:48	U	1
<b>Surrogate</b>	<b>Cas Number</b>	<b>% Recovery</b>	<b>Units</b>	<b>Limits</b>	<b>Analysis Date</b>	<b>Flag</b>	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.20.2020 05:48		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.20.2020 05:48		





# QC Summary 670338

## Etech Environmental & Safety Solution, Inc Pirate State 302H 401H

**Analytical Method: Chloride by EPA 300**

Seq Number: 3135041

MB Sample Id: 7709764-1-BLK

Matrix: Solid

LCS Sample Id: 7709764-1-BKS

Prep Method: E300P

Date Prep: 08.19.2020

LCSD Sample Id: 7709764-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	246	98	246	98	90-110	0	20	mg/kg	08.19.2020 20:41	

**Analytical Method: Chloride by EPA 300**

Seq Number: 3135041

Parent Sample Id: 670326-004

Matrix: Soil

MS Sample Id: 670326-004 S

Prep Method: E300P

Date Prep: 08.19.2020

MSD Sample Id: 670326-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	357	253	604	98	609	100	90-110	1	20	mg/kg	08.19.2020 20:57	

**Analytical Method: Chloride by EPA 300**

Seq Number: 3135041

Parent Sample Id: 670337-003

Matrix: Soil

MS Sample Id: 670337-003 S

Prep Method: E300P

Date Prep: 08.19.2020

MSD Sample Id: 670337-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4060	1250	5370	105	5380	106	90-110	0	20	mg/kg	08.19.2020 22:11	

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3135110

MB Sample Id: 7709753-1-BLK

Matrix: Solid

LCS Sample Id: 7709753-1-BKS

Prep Method: SW8015P

Date Prep: 08.19.2020

LCSD Sample Id: 7709753-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1030	103	965	97	70-130	7	20	mg/kg	08.19.2020 12:34	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	947	95	70-130	8	20	mg/kg	08.19.2020 12:34	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		111		96		70-130	%	08.19.2020 12:34
o-Terphenyl	102		113		87		70-130	%	08.19.2020 12:34

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3135110

Matrix: Solid  
MB Sample Id: 7709753-1-BLK

Prep Method: SW8015P

Date Prep: 08.19.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	ND	mg/kg	08.19.2020 12:12	

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

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

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

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



Etech Environmental & Safety Solution, Inc  
Pirate State 302H 401H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3135110

Parent Sample Id: 670276-001

Matrix: Soil

MS Sample Id: 670276-001 S

Prep Method: SW8015P

Date Prep: 08.19.2020

MSD Sample Id: 670276-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	970	97	986	99	70-130	2	20	mg/kg	08.19.2020 13:38	
Diesel Range Organics (DRO)	<49.9	998	989	99	1000	100	70-130	1	20	mg/kg	08.19.2020 13:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		109		70-130	%	08.19.2020 13:38
o-Terphenyl	107		108		70-130	%	08.19.2020 13:38

Analytical Method: BTEX by EPA 8021B

Seq Number: 3135087

MB Sample Id: 7709815-1-BLK

Matrix: Solid

LCS Sample Id: 7709815-1-BKS

Prep Method: SW5035A

Date Prep: 08.19.2020

LCSD Sample Id: 7709815-1-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	0.102	102	0.105	105	70-130	3	35	mg/kg	08.20.2020 03:07	
Toluene	<0.00200	0.100	0.112	112	0.117	117	70-130	4	35	mg/kg	08.20.2020 03:07	
Ethylbenzene	<0.00200	0.100	0.0983	98	0.103	103	70-130	5	35	mg/kg	08.20.2020 03:07	
m,p-Xylenes	<0.00400	0.200	0.193	97	0.204	102	70-130	6	35	mg/kg	08.20.2020 03:07	
o-Xylene	<0.00200	0.100	0.0974	97	0.102	102	70-130	5	35	mg/kg	08.20.2020 03:07	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		100		101		70-130	%	08.20.2020 03:07
4-Bromofluorobenzene	100		100		101		70-130	%	08.20.2020 03:07

Analytical Method: BTEX by EPA 8021B

Seq Number: 3135087

Parent Sample Id: 670350-001

Matrix: Soil

MS Sample Id: 670350-001 S

Prep Method: SW5035A

Date Prep: 08.19.2020

MSD Sample Id: 670350-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0589	59	0.0652	66	70-130	10	35	mg/kg	08.20.2020 03:48	X
Toluene	<0.00200	0.0998	0.0367	37	0.0493	50	70-130	29	35	mg/kg	08.20.2020 03:48	X
Ethylbenzene	<0.00200	0.0998	0.0162	16	0.0279	28	70-130	53	35	mg/kg	08.20.2020 03:48	XF
m,p-Xylenes	<0.00399	0.200	0.0268	13	0.0490	25	70-130	59	35	mg/kg	08.20.2020 03:48	XF
o-Xylene	<0.00200	0.0998	0.0144	14	0.0248	25	70-130	53	35	mg/kg	08.20.2020 03:48	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		103		70-130	%	08.20.2020 03:48
4-Bromofluorobenzene	100		101		70-130	%	08.20.2020 03:48

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

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

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

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



# Eurofins Xenco, LLC

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Etech Environmental & Safety Solution, I

**Date/ Time Received:** 08.18.2020 04.15.00 PM

**Work Order #:** 670338

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

**Temperature Measuring device used :** IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.9
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

BTEX was in bulk container

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

Analyst:

PH Device/Lot#:

**Checklist completed by:** Brianna Teel Date: 08.19.2020  
 Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 08.19.2020  
 Jessica Kramer

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

Incident ID	
District RP	
Facility ID	39031
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Centennial Resource Development	OGRID: 372165
Contact Name: Jamon Hohensee	Contact Telephone: 432-241-4283
Contact email: jamon.hohensee@cdevinc.com	Incident # (assigned by OCD)
Contact mailing address: 500 W Illinois Ave Suite 500, Midland TX, 79705	

### Location of Release Source

Latitude 32.22384 \_\_\_\_\_ Longitude -103.46814 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Pirate State CTB 1	Site Type: Tank Battery
Date Release Discovered: 4/26/2020	API# 3002545777

Unit Letter	Section	Township	Range	County
T	24S	34E	16	Lea

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe) H2S Scavenger	Volume/Weight Released (provide units) 2 gallons	Volume/Weight Recovered (provide units) 0 gallons

Cause of Release  
A malfunction in a check valve from separator allowed 2 gallons of H2S scavenger fluid to accumulate in the flare line. When operations began the scavenger fluid was moved to the tip of the flare and ignited. The gas lift compressor was down and the amount of time it was down could account for the amount of fluid in the line.

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Resulted in a fire that was immediately put out. Approx. 10'x10' area.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice by phone was given on 4-27-2020 8:00am CST to Kerry Fortner by Jamon Hohensee and the API 3002545777 was used as reference.	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:   
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Jamon Hohensee Title: Sr. Environmental Analyst Signature:  Date: 4/27/2020 email: jamon.hohensee@cdevinc.com Telephone: 432-241-4283
<b><u>OCD Only</u></b> Received by: _____ Date: _____

Incident ID	
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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> 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 9.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 12/18/2020 10:10:25 AM

State of New Mexico  
Oil Conservation Division

Incident ID	
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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

- Approved     
 Approved with Attached Conditions of Approval     
 Denied     
 Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

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

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

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Action 10519

**CONDITIONS OF APPROVAL**

Operator:	CENTENNIAL RESOURCE PRODUCTION	1001 17th Street, Suite 1800	Denver, CO80202	OGRID:	372165	Action Number:	10519	Action Type:	C-141
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OCD Reviewer	Condition
ceads	None