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	2RP-5629
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XT	O Energy		OGRID	5380
Contact Name Kyle L	ittrell		Contact T	elephone 432-221-7331
Contact email Kyle_L	ittrell@xtoenergy.	com	Incident #	(assigned by OCD)
Contact mailing address	522 W. Mermod	l, Carlsbad, NM 8	8220	
		Location	of Release S	ource
Latitude			Longitude	-103.806318
Lantude		(NAD 83 in dec	cimal degrees to 5 decin	nal places)
Site Name PLU Phanto	om Banks 20-25-31	USA Battery	Site Type	Bulk Storage and Separation Facility
Date Release Discovered	8/20/2019		API# (if app	olicable) 30-015-40764 (Poker Lake CVX JV PB 6H)
Unit Letter Section	Township	Range	Coun	ıty
D 20	258	31E	Edd	
Surface Owner: State Federal Tribal Private (Name: BLM Nature and Volume of Release				
			calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Release			Volume Recovered (bbls)
➤ Produced Water	Volume Release	- 10		Volume Recovered (bbls) 10
		ion of total dissolv water >10,000 mg/		☐ Yes ☐ No
☐ Condensate	Volume Release	d (bbls)		Volume Recovered (bbls)
Natural Gas	Volume Release	d (Mcf)		Volume Recovered (Mcf)
Other (describe)	Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)
48-hou inspect request	r advance notice of ed and determined s deferral of potent	Timer inspection was to be inadequate. It is impacts under the same of the sam	vas provided by em Liner is scheduled : liner until facility u	k battery containment. The pump was isolated until it for fluids were seen outside/around containment area. A ail to NMOCD District 2. The liner was visually for repair and returned to impervious condition. XTO apgrades or is abandoned. It is XTO safety policy to containment is congested by lines, tanks, and

equipment making it impossible to access for vertical delineation via heavy equipment or drill rig.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	N/A
19.15.29.7(A) NMAC?	
☐ Yes 🏻 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
IVA	
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
The impacted area has	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have not been undertaken, explain why:
N/A	
11/12	
has begun, please attach a	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred t area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the infor	mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are r	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger
public health or the environm	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have the 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: Kyle Littre	Title: SH&E Supervisor
Signature:	Date: 9/4/2019
email: Kyle_Littrell@xtoe	Telephone: 432-221-7331
Cildin	telephone.
OCD Only	
Received by:	Date:
	Date.

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5629
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?	>100 (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.
Characterization Report Cheeking. Each of the following thems must be inclinated 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.

Incident ID	
District RP	2RP-5629
Facility ID	
Application ID	

regulations all operators are public health or the environm failed to adequately investigated to adequate the control of the c	required to report and/or file certain releasement. The acceptance of a C-141 report by ate and remediate contamination that pose	to the best of my knowledge and understand that pursuant to OCD rules and use notifications and perform corrective actions for releases which may endangly the OCD does not relieve the operator of liability should their operations have a threat to groundwater, surface water, human health or the environment. In ator of responsibility for compliance with any other federal, state, or local law	ive 1
Printed Name:	Kyle Littrell	Title:SH&E Coordinator	
Signature:	2 Author	Date:12/06/2019	
email: Kyle_Littre	ell@xtoenergy.com	Telephone:(432)-221-7331	
OCD Only			
Received by:		Date:	

State of New Mexico Oil Conservation Division

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

Incident ID	
District RP	2RP-5629
Facility ID	
Application ID	

Closure

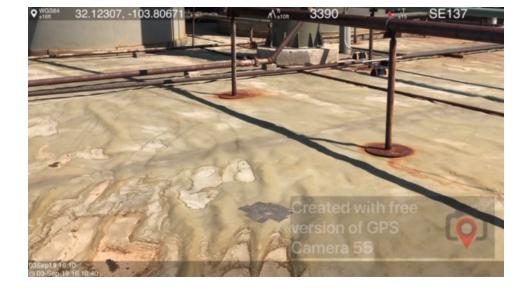
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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.

	5.29.11 NMAC
Photographs of the remediated site prior to backfill or p must be notified 2 days prior to liner inspection)	shotos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate	e ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file of may endanger public health or the environment. The acceptary should their operations have failed to adequately investigate as human health or the environment. In addition, OCD acceptant compliance with any other federal, state, or local laws and/or a	complete to the best of my knowledge and understand that pursuant to OCD rules certain release notifications and perform corrective actions for releases which nee of a C-141 report by the OCD does not relieve the operator of liability and remediate contamination that pose a threat to groundwater, surface water, ce of a C-141 report does not relieve the operator of responsibility for regulations. The responsible party acknowledges they must substantially the conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete.
Printed Name: Kyle Littrell	Title:SH&E Supervisor
Signature:	Date:12/06/2019
email: Kyle Littrell@xtoenergy.com	Telephone: 432-221-7331
	Telephone: 432-221-7331
OCD Only	
OCD Only Received by: Closure approval by the OCD does not relieve the responsible	Date: party of liability should their operations have failed to adequately investigate and rface water, human health, or the environment nor does not relieve the responsible
OCD Only Received by: Closure approval by the OCD does not relieve the responsible remediate contamination that poses a threat to groundwater, sur	Date: party of liability should their operations have failed to adequately investigate and rface water, human health, or the environment nor does not relieve the responsible s and/or regulations.
OCD Only Received by: Closure approval by the OCD does not relieve the responsible remediate contamination that poses a threat to groundwater, surparty of compliance with any other federal, state, or local laws	Date: party of liability should their operations have failed to adequately investigate and rface water, human health, or the environment nor does not relieve the responsible and/or regulations. Date:

PLU Phantom Banks 20-25-31 USA Battery (30-015-40764 Poker Lake CVX JV PB 6H)

Spill Date: 8/20/2019





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

<u>Form C-141</u>
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

			Resp	onsible Part	y
Responsible Party XTO Energy				OGRID	5380
Contact Name Kyle Littrell				Contact To	elephone 432-221-7331
Contact email	Kyle_Li	ttrell@xtoenergy.o	com	Incident #	(assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220					
			Location	of Release S	ource
Latitude 32.12	22709		(NAD 83 in dec	Longitude cimal degrees to 5 decir	-103.806492 nal places)
Site Name P	LU Phanto	m Banks 20-25-31	Battery	Site Type	Well Location
Date Release D	Discovered	11/16/2019		API# (if app	olicable) 30-015-40764 (Poker Lake CVS JV PB #006H)
Unit Letter	Section	Township	Range	Cour	nty
D	20	25S	31E	EDDY	
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)
Crude Oil		Volume Release			Volume Recovered (bbls) 0.0
Produced V	Vater	Volume Release	d (bbls) 10.0		Volume Recovered (bbls) 10.0
Is the concentration of dissolved chloride i produced water >10,000 mg/l?		hloride in the	☐ Yes ☐ No		
Condensate Volume Released (bbls)			Volume Recovered (bbls)		
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)		
Cause of Release: The seal on the South pump went out and released 10 bbls of produced water into containment, a vacuum truck recovered 10 bbls. A 48-hour advance notice of liner inspection was provided by email to NMOCD District 2. The liner visually inspected and inspector determined the liner has a hole, delineation for deferral will be conducted by a third party contractor.					

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?	
release as defined by 19.15.29.7(A) NMAC?	N/A		
☐ Yes ⊠ No			
If VES, was immediate no	ation given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?	
II 1 ES, was ininediate in		om: when and by what means (phone, eman, etc):	
	N/A		
	Initial Re	sponse	
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury	
☐ The source of the rele	ase has been stopped.		
☐ The impacted area has	s been secured to protect human health and t	he environment.	
Released materials ha	ve been contained via the use of berms or de	kes, absorbent pads, or other containment devices.	
☐ All free liquids and re	ecoverable materials have been removed and	managed appropriately.	
If all the actions described	l above have <u>not</u> been undertaken, explain w	hy:	
	N/A		
has begun, please attach a	a narrative of actions to date. If remedial e	mediation immediately after discovery of a release. If remediation fforts have been successfully completed or if the release occurred ease 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: Kyle	<u>Littrell</u>	Title: SH&E Supervisor	
Signature:	Afril	Date:11/25/2019	
email:Kyle_Littrell@	xtoenergy.com	Telephone:	
OCD Only			
Received by:		Date:	
reserved by.			

Location:	PLU Phantom Banks 20-25-31		
Spill Date:	11/16/2019		
Approximate Area = 170.12 s		sq. ft.	
Average Saturation (or depth) of spill = 3.96		inches	

TOTAL VOLUME OF LEAK		
Total Treated Water =	10.00 bbls	
VOLUME RECOVERED		
Total Treated Water =	10.00 bbls	

State of New Mexico Oil Conservation Division

Incident ID	
District RP	NOT ASSIGNED
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: Each of the following items must be included in the report.
Characterization Report Cheeking. Each of the following thems must be inclinated 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.

Incident ID	
District RP	NOT ASSIGNED
Facility ID	
Application ID	

regulations all oppublic health or to failed to adequate	perators are required to report and/or file certain release notified the environment. The acceptance of a C-141 report by the O ely investigate and remediate contamination that pose a three acceptance of a C-141 report does not relieve the operator of the company of the compa	est of my knowledge and understand that pursuant to OCD rules and ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have it to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws
Printed Name:	Kyle Littrell	Title:SH&E Coordinator
Signature:	- p Je Junt	Date:12/06/2019
email:	Kyle_Littrell@xtoenergy.com	Telephone:(432)-221-7331
OCD Only		
Received by: _	<u>-</u>	Date:

State of New Mexico Oil Conservation Division

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

Incident ID	
District RP	NOT ASSIGNED
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.

A scaled site and sampling diagram as described in 19.15	5.29.11 NMAC
Photographs of the remediated site prior to backfill or ph must be notified 2 days prior to liner inspection)	notos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate	ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file c may endanger public health or the environment. The acceptant should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or respectively.	mplete to the best of my knowledge and understand that pursuant to OCD rules bertain release notifications and perform corrective actions for releases which ce of a C-141 report by the OCD does not relieve the operator of liability and remediate contamination that pose a threat to groundwater, surface water, see of a C-141 report does not relieve the operator of responsibility for egulations. The responsible party acknowledges they must substantially the conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete.
Printed Name: Kyle Littrell	Title: SH&E Supervisor
Signature:	Date:12/06/2019
email:Kyle_Littrell@xtoenergy.com	Telephone: 432-221-7331
OCD Only	
Received by:	Date:
	party of liability should their operations have failed to adequately investigate and face water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:
_	



LT Environmental, Inc.

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432.704.5178

December 6, 2019

Mr. Mike Bratcher New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: Closure Request

Poker Lake Unit Phantom Banks 20-25-31 Battery
Remediation Permit Number 2RP-5629 and RP Not Assigned (PO Number LG0HR-191126-C-1410) NCE2002749344
Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following report detailing site assessment and soil sampling activities at the Poker Lake Unit Phantom Banks 20-25-31 Battery (Site) in Unit D, Section 20, Township 25 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to confirm the presence or absence of impacts to soil following two separate releases of produced water at the Site. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, XTO is submitting this Closure Report and requesting no further action for Remediation Permit (RP) Numbers 2RP-5629 and a subsequent second event that has yet to be assigned an RP Number. The Purchase Order (PO) Number for the initial Release Notification and Corrective Action Form C-141 (Form C-141) submitted to the New Mexico Oil Conservation Division (NMOCD) on November 25, 2019, for the second release event is LGOHR-191126-C-1410.

RELEASE BACKGROUND

On August 20, 2019, a seal on a produced water transfer pump failed, resulting in the release 10 barrels (bbls) of produced water into the lined tank battery containment. The pump was isolated until repairs could be made. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 10 bbls of produced water was recovered. A liner integrity inspection was conducted. A 48-hour notification was provided to the NMOCD via email prior to the liner inspection. The liner was determined to have a hole. XTO reported the release to the NMOCD on a Form C-141 on September 4, 2019, and was assigned RP Number 2RP-5629 (Attachment 1). Based on the presence of active production equipment, XTO requested deferral of delineation and remediation on the C141. The NMOCD denied XTO's deferral request on November 8, 2019 and required XTO to obtain delineation soil samples beneath the liner.





Bratcher, M. Page 2

On November 16, 2019, a seal on a pump failed, resulting in the release 10 barrels (bbls) of produced water into the same lined tank battery containment. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 10 bbls of produced water was recovered. A liner integrity inspection was conducted. A 48-hour notification was provided to the NMOCD via email prior to the liner inspection, but the same liner hole was present. XTO reported the release to the NMOCD on a Form C-141 on November 25, 2019, and the RP number has not been assigned (Attachment 1). The PO Number for the initial Form C-141 submission for this release event is LGOHR-191126-C-1410.

SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data. The closest permitted water well with depth to water data is United States Geological Survey (USGS) well 320643103465002, located approximately 1.58 miles southeast of the Site. The water well has a depth to groundwater of approximately 318 feet bgs and a total depth of 400 feet bgs. The closest continuously flowing water or significant watercourse to the Site is an intermittent dry wash, located approximately 3,823 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a low potential karst area.

CLOSURE CRITERIA

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg.





Bratcher, M. Page 3

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On November 18, 2019, LTE evaluated the release extent based on information provided on the Form C-141s and visual observations. LTE personnel advanced a borehole via hand-auger at one location within the lined tank battery containment on the northern edge of the caliche well pad. Site assessment activities and vertical delineation soil sampling was completed at the location of the hole found during the liner integrity inspection conducted by XTO. Two soil samples were collected at depths of 1 foot and 2 feet bgs (BH01 and BH01A). No soil staining was observed during the site visit. Soil from the borehole was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each sample were documented on a lithologic/soil sample log and are included as Attachment 2. The borehole was backfilled with the soil removed and XTO repaired the liner. The borehole and delineation soil sample locations are depicted on Figure 2.

The soil samples from were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Midland, Texas, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following USEPA Method 8015M/D; and chloride following EPA Method 300.0. Photographic documentation was conducted during the Site visit. Photographs are included in Attachment 3.

ANALYTICAL RESULTS

Laboratory analytical results indicated benzene, BTEX, GRO and DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in soil samples BH01 and BH01A at depths of approximately 1 foot and 2 feet bgs, respectively. Laboratory analytical results are presented on Figure 2, and summarized in Table 1. The complete laboratory analytical reports are included as Attachment 4.

CONCLUSIONS

Delineation soil samples BH01 and BH01A collected from within the lined tank battery containment from depths of 1 foot and 2 feet bgs to assess for the presence or absence of soil impacts as a result of the August 20 and November 16, 2019, produced water releases. A vacuum truck recovered all free-standing fluid. Laboratory analytical results for the soil samples indicated benzene, BTEX, GRO and DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, field screening of soil indicated volatile aromatic hydrocarbons and chloride concentrations were not elevated and soil staining and petroleum hydrocarbon odors were not identified within the release extent.





Bratcher, M. Page 4

Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria, no impacted soil was identified beneath the liner and no soil was impacted as a result of the produced water releases. XTO requests no further action for RP Numbers 2RP-5629 and the subsequent November 16, 2019 release. Updated Form C-141s are included as Attachment 1.

If you have any questions or comments, please do not hesitate to contact Ashley Ager at (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

Carol Ann Whaley

Staff Geologist

Ashley L. Ager, P.G.

Senior Geologist

cc: Kyle Littrell, XTO

United States Bureau of Land Management – New Mexico

Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Appendices:

Figure 1 Site Location Map

Figure 2 Delineation Soil Sample Locations

Table 1 Soil Analytical Results

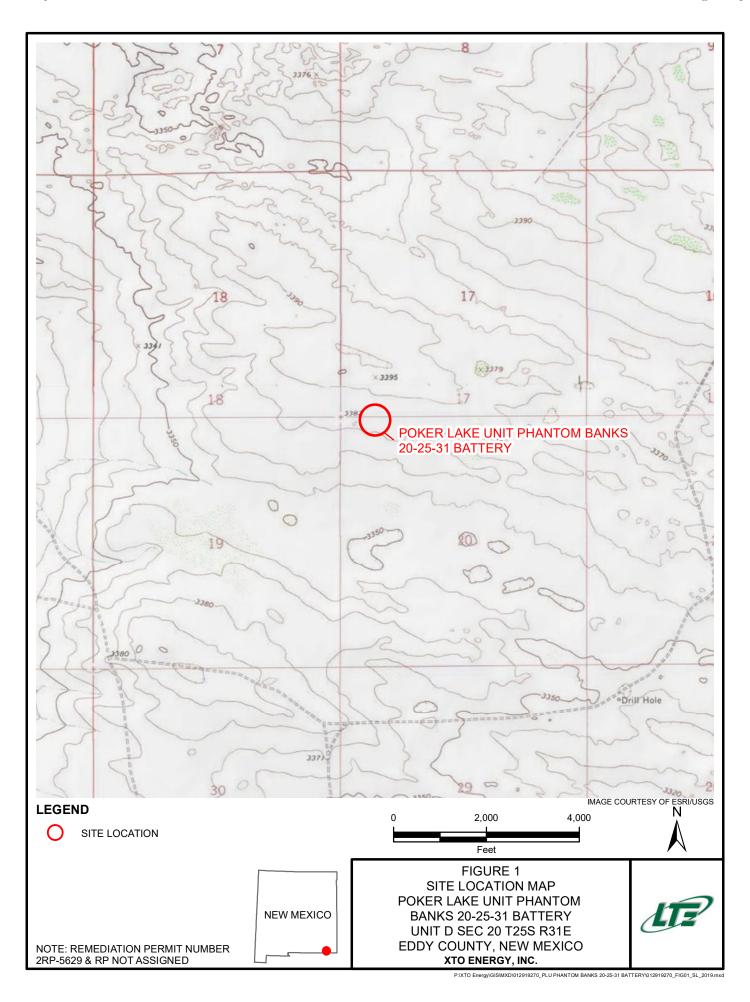
Attachment 1 Initial/Final NMOCD Form C-141 (2RP-5629 and RP not assigned)

Attachment 2 Lithologic / Soil Sampling Logs

Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports





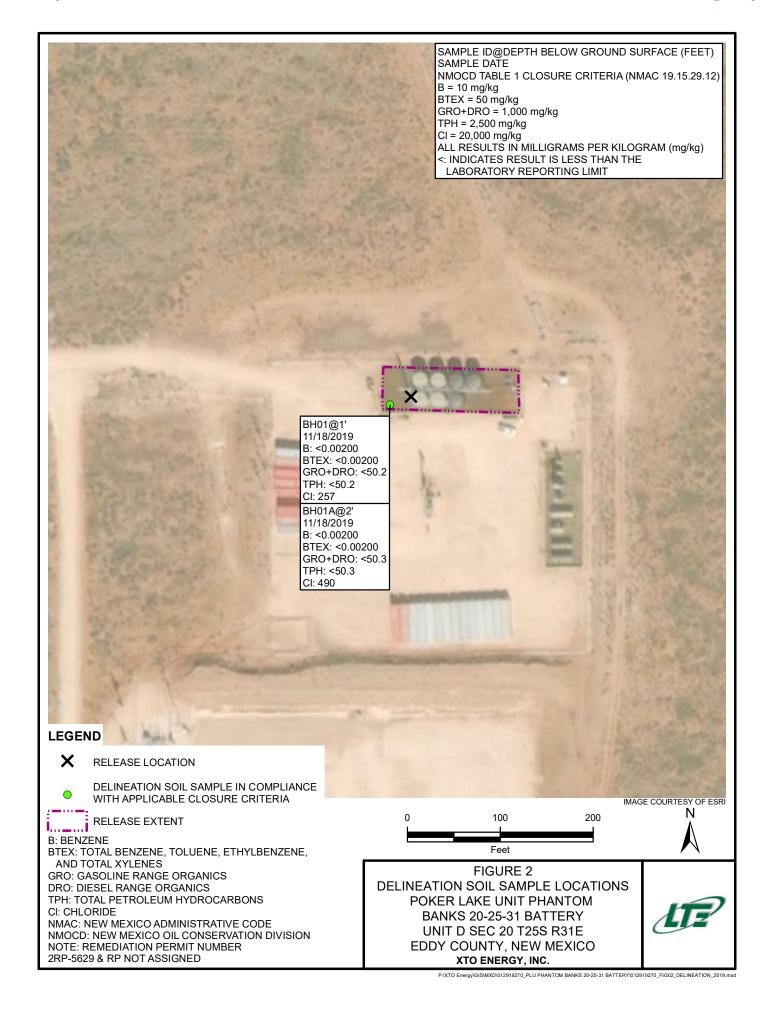


TABLE 1 SOIL ANALYTICAL RESULTS

POKER LAKE UNIT PHANTOM BANKS 20-25-31 BATTERY REMEDIATION PERMIT NUMBERS 2RP-5629 & NOT ASSIGNED EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
BH01	1	11/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	257
BH01A	2	11/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	490
NMOCD Table	1 Closure Crit	eria	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics

NMAC - New Mexico Administrative Code

NMOCD - New Mexico Oil Conservation Division

NE - not established

TPH - total petroleum hydrocarbons

< - indicates result is below laboratory reporting limits

Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018





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	2RP-5629
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy				OGRID	5380		
Contact Name Kyle Littrell				Contact T	Contact Telephone 432-221-7331		
Contact ema	il Kyle_Li	ttrell@xtoenergy.o	com	Incident #	(assigned by OCD,)	
Contact mai	ling address	522 W. Mermod	l, Carlsbad, NM 88	3220			
			Location	of Release S	ource		
Latitude 32.	123045			Longitude	-103.806318		
			(NAD 83 in dec	cimal degrees to 5 deci	mal places)		
Site Name I	PLU Phantoi	m Banks 20-25-31	USA Battery	Site Type	Bulk Storage a	and Separation Facility	
Date Release		8/20/2019		API# (if ap)		-40764 (Poker Lake CVX JV PB 6H)	
Unit Letter	Section	Township	Range	Cour	nty	_	
D	20	258	31E	Edd	ly		
Surface Owne	r: State	▼ Federal □ Tr	ribal 🔲 Private (A	Jama: BLM		,	
Burilee Owner	state	Z rederar 11	ibai 🗀 i iivate (iv	ите			
			Nature and	Volume of l	Release		
	Materia	l(s) Released (Select al	I that apply and attach	calculations or specific	iustification for the	volumes provided below)	
Crude Oil		Volume Release			Volume Réco		
▼ Produced	Water	Volume Release	d (bbls) 10		Volume Reco	vered (bbls) 10	
			ion of total dissolv		☐ Yes ☐ N	io	
Condensa	te	Volume Release	water >10,000 mg/ d (bbls)	1?	Volume Reco	vered (hhls)	
Natural G					Volume Reco		
Natural Gas Volume Released (Mcf) Other (describe) Volume/Weight Released (provide units)			····ita)				
Volume Weight Released (provide units)			ums)	volume/weig	tht Recovered (provide units)		
Cause of Release							
A seal on a produced water transfer pump leaked fluid into tank battery containment. The pump was isolated until it can be repaired. Vacuum truck returned all free fluid to tank. No fluids were seen outside/around containment area. A							
						District 2. The liner was visually	
						eturned to impervious condition. XTO	
						bandoned. It is XTO safety policy to	
						congested by lines, tanks, and uipment or drill rig.	

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the response	nsible party consider this a major release?			
release as defined by 19.15.29.7(A) NMAC?	N/A				
19.13.29.7(A) NWIAC:					
☐ Yes 🏻 No					
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A					
	Initial Ro	esponse			
The responsible p	arty must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury			
The source of the release	ase has been stopped.				
★ The impacted area has	been secured to protect human health and	the environment.			
■ Released materials have	ve been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.			
All free liquids and red	coverable materials have been removed and	d managed appropriately.			
If all the actions described	above have not been undertaken, explain v	why:			
N/A					
Per 19.15.29.8 B. (4) NMA	AC the responsible party may commence re	emediation immediately after discovery of a release. If remediation			
has begun, please attach a	narrative of actions to date. If remedial e	efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.			
regulations all operators are re public health or the environme failed to adequately investigat	equired to report and/or file certain release notifient. The acceptance of a C-141 report by the Otte and remediate contamination that pose a threater	best of my knowledge and understand that pursuant to OCD rules and ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws			
Printed Name: Kyle Littre		Title: SH&E Supervisor			
Signature:	full	Date:			
email: Kyle_Littrell@xtoe	nergy.com	Telephone: 432-221-7331			
OCD Only					
Received by:		Date:			

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5629
Facility ID	
Application ID	

Site Assessment/Characterization

 $This information \ must \ be \ provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (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?				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil				

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soi 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.
Characterization Report Cheeking. Each of the following thems must be inclinated 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.

Incident ID	
District RP	2RP-5629
Facility ID	
Application ID	

regulations all operators are public health or the environ failed to adequately investi	e required to report and/or file certain ment. The acceptance of a C-141 re gate and remediate contamination the	mplete to the best of my knowledge and understand that pursuant to OCD rules and n release notifications and perform corrective actions for releases which may endanger eport by the OCD does not relieve the operator of liability should their operations have at pose a threat to groundwater, surface water, human health or the environment. In e operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:	Kyle Littrell	Title:SH&E Coordinator
Signature:	Ge Hand	Date:12/06/2019
email: Kyle_Lit	trell@xtoenergy.com	Telephone:(432)-221-7331
OCD O-I		
OCD Only		
Received by:		Date:

State of New Mexico Oil Conservation Division

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

Incident ID	
District RP	2RP-5629
Facility ID	
Application ID	

Closure

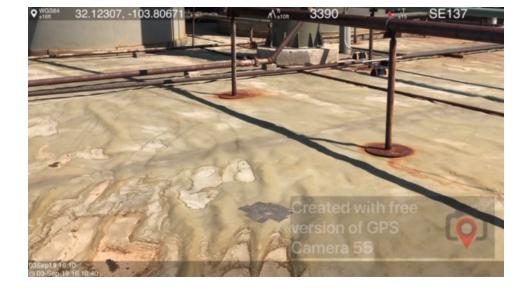
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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.

	5.29.11 NMAC
Photographs of the remediated site prior to backfill or p must be notified 2 days prior to liner inspection)	shotos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate	e ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file of may endanger public health or the environment. The acceptary should their operations have failed to adequately investigate as human health or the environment. In addition, OCD acceptant compliance with any other federal, state, or local laws and/or a	complete to the best of my knowledge and understand that pursuant to OCD rules certain release notifications and perform corrective actions for releases which nee of a C-141 report by the OCD does not relieve the operator of liability and remediate contamination that pose a threat to groundwater, surface water, ce of a C-141 report does not relieve the operator of responsibility for regulations. The responsible party acknowledges they must substantially the conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete.
Printed Name: Kyle Littrell	Title:SH&E Supervisor
Signature:	Date:12/06/2019
email: Kyle Littrell@xtoenergy.com	Telephone: 432-221-7331
	Telephone: 432-221-7331
OCD Only	
OCD Only Received by: Closure approval by the OCD does not relieve the responsible	Date: party of liability should their operations have failed to adequately investigate and rface water, human health, or the environment nor does not relieve the responsible
OCD Only Received by: Closure approval by the OCD does not relieve the responsible remediate contamination that poses a threat to groundwater, sur	Date: party of liability should their operations have failed to adequately investigate and rface water, human health, or the environment nor does not relieve the responsible s and/or regulations.
OCD Only Received by: Closure approval by the OCD does not relieve the responsible remediate contamination that poses a threat to groundwater, surparty of compliance with any other federal, state, or local laws	Date: party of liability should their operations have failed to adequately investigate and rface water, human health, or the environment nor does not relieve the responsible and/or regulations. Date:

PLU Phantom Banks 20-25-31 USA Battery (30-015-40764 Poker Lake CVX JV PB 6H)

Spill Date: 8/20/2019





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

<u>Form C-141</u>
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

		Resp	onsible Part	y		
Responsible Party XTO Energy			OGRID	OGRID 5380		
Contact Name Kyle Littrell			Contact Te	elephone 432-221-7331		
Contact email Kyle	Littrell@xtoenergy.	com	Incident #	(assigned by OCD)		
Contact mailing addre 88220	ss 522 W. Mermoo	d, Carlsbad, NM	1			
		Location	of Release So	ource		
Latitude 32.122709 Longitude -103.806492 (NAD 83 in decimal degrees to 5 decimal places)						
Site Name PLU Phar	ntom Banks 20-25-3	Battery	Site Type	Well Location		
Date Release Discovere	ed 11/16/2019		API# (if app	olicable) 30-015-40764 (Poker Lake CVS JV PB #006H)		
Unit Letter Section	Township	Range	Cour	ity		
D 20	25S	31E	EDDY			
Surface Owner: State Federal Tribal Private (Name:)						
			l Volume of 1			
Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below Crude Oil Volume Released (bbls) 0.0 Volume Recovered (bbls) 0.0		justification for the volumes provided below) Volume Recovered (bbls) 0.0				
☐ Produced Water	Volume Release			Volume Recovered (bbls) 10.0		
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		hloride in the	Yes No			
Condensate	Volume Released (bbls)			Volume Recovered (bbls)		
☐ Natural Gas	Gas Volume Released (Mcf)		Volume Recovered (Mcf)			
Other (describe)) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)		
recovered 10 bbls. A 4	8-hour advance notic	e of liner inspecti	on was provided by	f produced water into containment, a vacuum truck y email to NMOCD District 2. The liner visually will be conducted by a third party contractor.		

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A	
19.13.29.7(A) NWAC:	IVA	
☐ Yes ⊠ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	N/A	
	Initial Re	esponse
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ive been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
	N/A	
	1011	
		emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and actions and perform corrective actions for releases which may endanger
public health or the environr	ment. The acceptance of a C-141 report by the O	CD 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: Kyle	<u>Littrell</u>	Title: SH&E Supervisor
Signature:	Atul	
Signature:	July .	Date:11/25/2019
email:Kyle_Littrell@	xtoenergy.com	Telephone:
OCD Only		
Received by:		Date:

Location:	PLU Phantom Banks 20-25-31		
Spill Date:	11/16/2019		
Approximate Area = 170.12		sq. ft.	
Average Saturation (or depth) of spill = 3.96		inches	

TOTAL VOLUME OF LEAK	
Total Treated Water =	10.00 bbls
VOLUME RECOVERED	
Total Treated Water =	10.00 bbls

State of New Mexico Oil Conservation Division

Incident ID	
District RP	NOT ASSIGNED
Facility ID	
Application ID	
District RP Facility ID	NOT ASSIGNED

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: Each of the following items must be included in the report.		
Characterization Report Cheeking. Each of the following thems must be inclinated 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.

Incident ID	
District RP	NOT ASSIGNED
Facility ID	
Application ID	

regulations all operators are required to report public health or the environment. The accepta failed to adequately investigate and remediate	e is true and complete to the best of my knowledge and understand that pursuant to OCD rules and nd/or file certain release notifications and perform corrective actions for releases which may endanger ace of a C-141 report by the OCD does not relieve the operator of liability should their operations have ontamination that pose a threat to groundwater, surface water, human health or the environment. In es not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:Kyle Littre	ll Title:SH&E Coordinator
Signature:	Date:12/06/2019
email: Kyle_Littrell@xtoenergy.c	om Telephone:(432)-221-7331
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

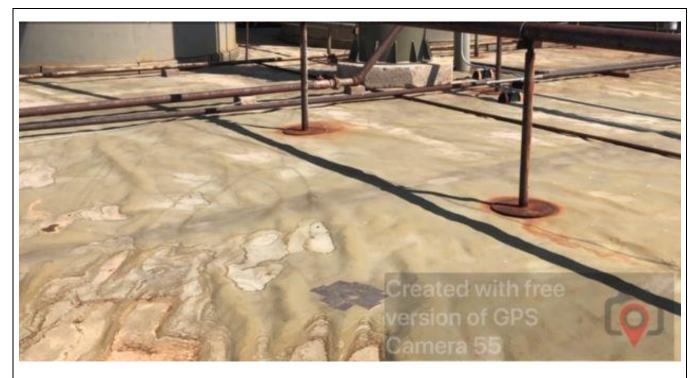
Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Incident ID	
District RP	NOT ASSIGNED
Facility ID	
Application ID	

Closure

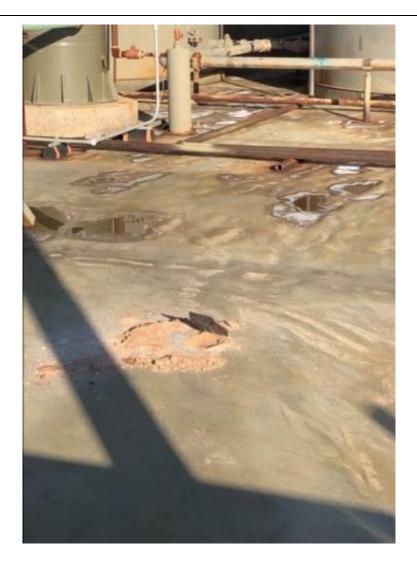
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC			
Photographs of the remediated site prior to backfill or photomust be notified 2 days prior to liner inspection)	os of the liner integrity if applicable (Note: appropriate OCD District office		
☐ Laboratory analyses of final sampling (Note: appropriate OI	OC District office must be notified 2 days prior to final sampling)		
☐ Description of remediation activities			
and regulations all operators are required to report and/or file certamay endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of	ulations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in		
Printed Name: Kyle Littrell	Title: SH&E Supervisor		
Printed Name: Kyle Littrell Signature: Kyle Littrell	Date:12/06/2019		
email: Kyle Littrell@xtoenergy.com	Telephone: 432-221-7331		
OCD Only			
Received by:	Date:		
	ty of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.		
Closure Approved by:	Date:		
Printed Name:	Title:		
_			



Southeastern view of lined tank battery containment and liner hole during soil sampling activities.

Project: 012919270	XTO Energy, Inc. Poker Lake Unit Phantom Banks 20-25-31 Battery	LIE
November 18, 2019	Photographic Log	Advancing Opportunity



Southeastern view of lined tank battery containment and liner hole during soil sampling activities.

Project: 012919270	XTO Energy, Inc. Poker Lake Unit Phantom Banks 20-25-31 Battery	
November 18, 2019	Photographic Log	Advancing Opportunity

Analytical Report 643717

for

LT Environmental, Inc.

Project Manager: Dan Moir
PLU Phantom Banks
012919270
26-NOV-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



26-NOV-19

Project Manager: **Dan Moir LT Environmental, Inc.**4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): 643717

PLU Phantom Banks

Project Address: Eddy County

Dan Moir:

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) 643717. 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. 643717 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 Vermer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 643717

LT Environmental, Inc., Arvada, CO

PLU Phantom Banks

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01A	S	11-18-19 10:35	1 ft	643717-001
BH01A	S	11-18-19 10:55	2 ft	643717-002



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU Phantom Banks

 Project ID:
 012919270
 Report Date:
 26-NOV-19

 Work Order Number(s):
 643717
 Date Received:
 11/19/2019

Sample receipt non conformances and comments:

Corrected sample names per client email. See below. NEW VERSION GENERATED. JK 11/26/19

SS01 --> SS01A BH01 --> BH01A

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3108004 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Project Id:

Project Location:

Contact:



012919270

Eddy County

Dan Moir

Certificate of Analysis Summary 643717

LT Environmental, Inc., Arvada, CO

Project Name: PLU Phantom Banks

Date Received in Lab: Tue Nov-19-19 03:15 pm

Report Date: 26-NOV-19 **Project Manager:** Jessica Kramer

	Lab Id:	643717-0	001	643717-0	002		
Analysis Requested	Field Id:	SS01A		BH01A	.		
Anatysis Requested	Depth:	1- ft		2- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	Nov-18-19	10:35	Nov-18-19	10:55		
BTEX by EPA 8021B	Extracted:	Nov-19-19	17:11	Nov-19-19	17:11		
	Analyzed:	Nov-19-19	23:58	Nov-20-19	00:17		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00200	0.00200	< 0.00200	0.00200		
Toluene		< 0.00200	0.00200	< 0.00200	0.00200		
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200		
m,p-Xylenes		< 0.00200	0.00200	< 0.00200	0.00200		
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200		
Total Xylenes		< 0.00200	0.00200	< 0.00200	0.00200		
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	Nov-19-19	18:11	Nov-19-19	18:11		
	Analyzed:	Nov-19-19	19:52	Nov-19-19 2	20:10		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		257	9.92	490	9.88		
TPH by SW8015 Mod	Extracted:	Nov-19-19	16:30	Nov-19-19	16:30		
	Analyzed:	Nov-20-19	00:30	Nov-20-19	00:50		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	<50.3	50.3		
Diesel Range Organics (DRO)		< 50.2	50.2	<50.3	50.3		
Motor Oil Range Hydrocarbons (MRO)		< 50.2	50.2	< 50.3	50.3		
Total GRO-DRO		< 50.2	50.2	<50.3	50.3		
Total TPH		< 50.2	50.2	< 50.3	50.3		

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

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

Version: 1.%

Jessica Kramer Project Assistant



LT Environmental, Inc., Arvada, CO

PLU Phantom Banks

SS01A Sample Id:

Matrix:

Date Received:11.19.19 15.15

Lab Sample Id: 643717-001

Soil Date Collected: 11.18.19 10.35

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB

MAB

11.19.19 18.11 Date Prep:

11.19.19 16.30

Basis:

Wet Weight

Seq Number: 3108003

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	257	9.92	mg/kg	11.19.19 19.52		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: Analyst: DTH DTH

Date Prep:

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	\mathbf{RL}		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	11.20.19 00.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	11.20.19 00.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	11.20.19 00.30	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	11.20.19 00.30	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	11.20.19 00.30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	71	%	70-135	11.20.19 00.30		
o-Terphenyl		84-15-1	77	%	70-135	11.20.19 00.30		



LT Environmental, Inc., Arvada, CO

PLU Phantom Banks

Sample Id: SS01A

Matrix: Soil

Date Received:11.19.19 15.15

Lab Sample Id: 643717-001

Date Collected: 11.18.19 10.35

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B % Moisture:

Tech: Analyst: MAB

MAB

Date Prep: 11.19.19 17.11

Basis: W

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.19.19 23.58	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.19.19 23.58	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.19.19 23.58	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	11.19.19 23.58	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.19.19 23.58	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	11.19.19 23.58	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	11.19.19 23.58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	125	%	70-130	11.19.19 23.58		
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.19.19 23.58		



LT Environmental, Inc., Arvada, CO

PLU Phantom Banks

Sample Id: **BH01A**

Matrix: Soil

Date Received:11.19.19 15.15

Lab Sample Id: 643717-002

Date Collected: 11.18.19 10.55

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB

MAB

Date Prep: 11.19.19 18.11

Basis:

Wet Weight

Seq Number: 3108003

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	490	9.88	mg/kg	11.19.19 20.10		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

Analyst: DTH

Date Prep:

11.19.19 16.30

Basis: Wet Weight

Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
PHC610	<50.3	50.3		mg/kg	11.20.19 00.50	U	1
C10C28DRO	< 50.3	50.3		mg/kg	11.20.19 00.50	U	1
PHCG2835	< 50.3	50.3		mg/kg	11.20.19 00.50	U	1
PHC628	< 50.3	50.3		mg/kg	11.20.19 00.50	U	1
PHC635	< 50.3	50.3		mg/kg	11.20.19 00.50	U	1
	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	111-85-3	90	%	70-135	11.20.19 00.50		
	84-15-1	84	%	70-135	11.20.19 00.50		
	PHC610 C10C28DRO PHCG2835 PHC628	PHC610 <50.3 C10C28DRO <50.3 PHCG2835 <50.3 PHC628 <50.3 PHC635 <50.3 Cas Number 111-85-3	PHC610	PHC610	PHC610 <50.3 50.3 mg/kg C10C28DRO <50.3	PHC610	PHC610



LT Environmental, Inc., Arvada, CO

PLU Phantom Banks

BH01A Soil Sample Id: Matrix:

Date Received:11.19.19 15.15

Lab Sample Id: 643717-002 Date Collected: 11.18.19 10.55 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B Tech: MAB

Prep Method: SW5030B

% Moisture:

MAB Basis: Wet Weight Analyst: 11.19.19 17.11 Date Prep:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.20.19 00.17	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.20.19 00.17	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.20.19 00.17	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	11.20.19 00.17	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.20.19 00.17	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	11.20.19 00.17	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	11.20.19 00.17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	11.20.19 00.17		
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.20.19 00.17		



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.

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 643717

LT Environmental, Inc.

PLU Phantom Banks

Analytical Method: Chloride by EPA 300

3108003 Seq Number:

Matrix: Solid

Spike

250

E300P Prep Method:

Date Prep: 11.19.19

MB Sample Id:

7690696-1-BLK

LCS Sample Id: 7690696-1-BKS

LCS

LCSD Sample Id: 7690696-1-BSD %RPD RPD Limit Units Analysis

mg/kg

Date

Parameter Chloride

MB Result Amount

Result %Rec

LCS

Result %Rec

LCSD

Limits

20

Flag

<10.0

300

254 102

253

LCSD

101 90-110

11.19.19 17:55

Analytical Method: Chloride by EPA 300

3108003

Matrix: Soil

Prep Method: Date Prep:

E300P 11.19.19

Seq Number: Parent Sample Id:

643713-001

MS Sample Id: 643713-001 S MSD Sample Id: 643713-001 SD

Analysis

Date

Parameter

MS MS

MSD MSD Limits %RPD RPD Limit Units

Chloride

Parent Result

Spike Amount Result 198

%Rec 105 Result %Rec 509 106

90-110

20

mg/kg 11.19.19 18:12 Flag

Analytical Method: Chloride by EPA 300

200

Prep Method:

E300P

Seq Number: Parent Sample Id: 3108003

Matrix: Soil

508

Date Prep:

11.19.19

Parameter

643716-001

MS Sample Id: Spike MS MS

643716-001 S Limits MSD MSD

MSD Sample Id: 643716-001 SD %RPD RPD Limit Units

Chloride

Parent Result Amount

1080

Result %Rec 1270 95

Result 1280

%Rec 101 90-110 20

Analysis Date 11.19.19 19:35

Flag

Analytical Method: TPH by SW8015 Mod

3108033

Matrix: Solid

Prep Method:

SW8015P

Date Prep: 11.19.19

LCS Sample Id: 7690720-1-BKS LCSD Sample Id: 7690720-1-BSD MB Sample Id: 7690720-1-BLK MB LCS LCS %RPD RPD Limit Units Spike LCSD LCSD Limits Result Result Amount %Rec Result

Parameter

1-Chlorooctane

o-Terphenyl

Seq Number:

Gasoline Range Hydrocarbons (GRO) 1000 < 50.0 < 50.0 1000

MB Flag

1140 114 116

132

132

1090 1250

%Rec 109 70-135

129

129

4

%

%

mg/kg

Analysis Flag Date

11.19.19 11:27

11.19.19 11:27

11.19.19 11:27

35 mg/kg 11.19.19 11:27 7 35 Diesel Range Organics (DRO) 1160 70-135 125 mg/kg MB LCS LCS LCSD LCSD Limits Units Analysis Surrogate Date %Rec Flag Flag %Rec %Rec

Analytical Method: TPH by SW8015 Mod

120

118

Prep Method:

70-135

70-135

SW8015P

Seq Number:

3108033

Matrix: Solid

11.19.19

mg/kg

Flag Date

Parameter

MB Result

MB Sample Id: 7690720-1-BLK

Units

Date Prep:

Analysis

11.19.19 11:07

Motor Oil Range Hydrocarbons (MRO)

< 50.0

LCS = Laboratory Control Sample

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

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |

[D] = 100 * (C) / [B]Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

A = Parent Result = MS/LCS Result C = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec Parent Sample Id:

MB Sample Id:

Flag

Flag

Flag



QC Summary 643717

LT Environmental, Inc.

PLU Phantom Banks

Analytical Method: TPH by SW8015 Mod

3108033 Seq Number:

643713-001

Matrix: Soil

Prep Method: SW8015P

Date Prep:

11.19.19

MSD Sample Id: 643713-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	iit Units	Analysis Date	
Gasoline Range Hydrocarbons (GRO)	< 50.1	1000	937	94	863	86	70-135	8	35	mg/kg	11.19.19 17:52	
Diesel Range Organics (DRO)	< 50.1	1000	1090	109	992	99	70-135	9	35	mg/kg	11.19.19 17:52	

MS Sample Id: 643713-001 S

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	119		110		70-135	%	11.19.19 17:52
o-Terphenyl	120		111		70-135	%	11.19.19 17:52

Analytical Method: BTEX by EPA 8021B

3108004 Seq Number:

7690695-1-BLK

Matrix: Solid

LCS Sample Id: 7690695-1-BKS

Prep Method: SW5030B Date Prep:

11.19.19

LCSD Sample Id: 7690695-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.103	103	0.101	101	70-130	2	35	mg/kg	11.19.19 15:03
Toluene	< 0.00200	0.100	0.101	101	0.100	100	70-130	1	35	mg/kg	11.19.19 15:03
Ethylbenzene	< 0.00200	0.100	0.101	101	0.0996	100	71-129	1	35	mg/kg	11.19.19 15:03
m,p-Xylenes	< 0.00200	0.200	0.213	107	0.211	106	70-135	1	35	mg/kg	11.19.19 15:03
o-Xylene	< 0.00200	0.100	0.106	106	0.105	105	71-133	1	35	mg/kg	11.19.19 15:03
	3.4D	MD	-	og I	CC			ъ т	,	TT	A 1

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		104		103		70-130	%	11.19.19 15:03
4-Bromofluorobenzene	104		111		110		70-130	%	11.19.19 15:03

Analytical Method: BTEX by EPA 8021B

Seq Number: 3108004 Matrix: Soil

Prep Method: SW5030B

Date Prep: 11.19.19 Parent Sample Id: 643713-001 MS Sample Id: 643713-001 S MSD Sample Id: 643713-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00198	0.0992	0.103	104	0.0909	91	70-130	12	35	mg/kg	11.19.19 18:19
Toluene	< 0.00198	0.0992	0.101	102	0.0849	85	70-130	17	35	mg/kg	11.19.19 18:19
Ethylbenzene	< 0.00198	0.0992	0.0989	100	0.0758	76	71-129	26	35	mg/kg	11.19.19 18:19
m,p-Xylenes	< 0.00198	0.198	0.209	106	0.159	80	70-135	27	35	mg/kg	11.19.19 18:19
o-Xylene	< 0.00198	0.0992	0.105	106	0.0807	81	71-133	26	35	mg/kg	11.19.19 18:19

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		106		70-130	%	11.19.19 18:19
4-Bromofluorobenzene	116		118		70-130	%	11.19.19 18:19

 $E \ = MSD/LCSD \ Result$

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

11/19/19 535

Date/Time

Revised Date 051418 Rev. 2018.



Chain of Custody

Work Order No:

ronmental, Inc., Permian office Company Name: XTO Energy Progra	bir Bill to: (if different) Kyle Littrell	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000
Program: UST/PST R		1296 FL (813-620-2000) WW

rd terms and conditions	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	urchase order from client	amples constitutes a valid p	ocument and relinquishment of s	lotice: Signature of this de
Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn Ag TI U 1631/245.1/7470/7471:Hg	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo I A Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	RCRA 13PPM Texas 11 AI		Otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s) a
					4
	Might Moka				
		9.			
					/
	+ + +	2' +	4 1055	+	580 1 A
discrete	×××	1, 1	11/18/19 1035	S	5501
Sample Comments	TPH (E	Depth Numb	Date Time Sampled Sampled	2	Sample Identification
lab, if received by 4:30pm	EPA	2	Total Containers:	s: Yes No N/A	Sample Custody Seals:
TAT starts the day recevied by the	0=80	10,0	Correction Factor:	: Yes (No N/A	Cooler Custody Seals:
	021)	Ĭ	1 - NM-00	· (Yes) No	Received Intact:
)		Thermometer ID	Ó	Temperature (°C):
		Yes No	Yes No Wet Ice:	IPT Temp Blank:	SAMPLE RECEIPT
		Due Date:)	Elizabeth Naka	Sampler's Name:
		T COLOR	rty Rush:	Eddy County	P.O. Number:
		ine 🗡	Routine	042616210	Project Number:
Work Order Notes	ANALYSIS REQUEST	Turn Around	Bunks I	PLU Phanton	Project Name:
Deliverables: EDD ADaPT Other:		Email: enaka@ltenv.com, dmoir@ltenv.com	Email	(432) 236-3849	Phone:
Reporting:Level III	Report	City, State ZIP:		Midland, Tx 79705	City, State ZIP:
State of Project:	Sta	Address:		3300 North A Street	Address:
Program: UST/PST ☐RP ☐rownfields ☐RC ⑤perfund ☐	XTO Energy Progra	Company Name:	Permian office	LT Environmental, Inc., I	Company Name:
Work Order Comments	Kyle Littrell	Bill to: (if different)		Dan Moir	Project Manager:
o) www.xenco.com Page of 1	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)	2-7550) Phoenix,AZ (48	Hobbs,NM (575-39		



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11/19/2019 03:15:00 PM

Work Order #: 643717

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

Temperature Measuring device used: T-NM-007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		2	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contai	ner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/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)?		No	
#18 Water VOC samples have zero headsp	ace?	N/A	

Analyst:	PH Device/Lot#:

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

Date: 11/19/2019

Checklist completed by:

Elizabeth McClellan

Checklist reviewed by:

Jessica Kramer Date: 11/20/2019