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	NCE2002756541
District RP	
Facility ID	
Application ID	

NQUX4-191202-C-1410

Release Notification

Responsible Party

Responsible Party XTO Energy				OGR	OGRID 5380				
Contact Nam	ie Kyle Li	ttrell		Conta	act Telephone 432-221-7331				
Contact email Kyle_Littrell@xtoenergy.com					ent # (assigned by OCD)				
Contact mail 88220	ing address	522 W. Mermoo							
			Location	of Releas	e Source				
Latitude 32.	201506		(NAD 83 in dec	Longit cimal degrees to	ude -103.883480 5 decimal places)				
Site Name	PLU 261			Site T	ype Well Location				
Date Release	Discovered	11/18/2019		API#	I# (if applicable) 30-015-34877				
Unit Letter	Section	Township	Range		County				
J	21	24S	30E	EDD	Y				
	Materia	Federal Tr	Nature and	l Volume	pecific justification for the volumes provided below)				
Crude Oil		Volume Release	d (bbls) 0.0		Volume Recovered (bbls) 0.0				
□ Produced	Water	Volume Release	d (bbls) 141.23		Volume Recovered (bbls) 140.0				
		Is the concentrat produced water	ion of dissolved cl >10,000 mg/l?	hloride in the	☐ Yes ☐ No				
Condensa	te	Volume Release	d (bbls)		Volume Recovered (bbls)				
☐ Natural G	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)									
					1.23 bbls of produced water. A vacuum truck recovered 120 hird party resources have been retained to assist in the				

Page 2

Oil Conservation Division

		1.118
Incident ID	NCE2002756541	
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	WEG A 1 1 1 CG 11 CG	
19.15.29.7(A) NMAC?	YES – An unauthorized release of fluid over 25	barrels.
⊠ Yes □ No		
If VES was immediate no	otice given to the OCD? By whom? To whom?	When and by what manns (phone amail ata)?
II 1 LS, was infinediate no	once given to the OCD: By whom: To whom:	when and by what means (phone, email, etc)?
YES, by email from Adrian Ball'Jim.Griswold@state.nm.us' on	aker to Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Ven November 19, 2019 8:32 AM.	egas, Victoria, EMNRD; 'blm_nm_cfo_spill@blm.gov';
	Initial Respon	nse
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	as been secured to protect human health and the en	vironment.
Released materials ha	ave been contained via the use of berms or dikes, a	bsorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and mana	ged appropriately.
	d above have <u>not</u> been undertaken, explain why:	
ii aii aio aonono aoberio e	a above have <u>not</u> been undertaken, explain why.	
	N/A	
		102
		ation immediately after discovery of a release. If remediation
		have been successfully completed or if the release occurred
		attach all information needed for closure evaluation.
		my knowledge and understand that pursuant to OCD rules and
public health or the environm	ment. The acceptance of a C-141 report by the OCD do	s and perform corrective actions for releases which may endanger es not relieve the operator of liability should their operations have
failed to adequately investiga	gate and remediate contamination that pose a threat to gr	oundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	at a C-141 report does not relieve the operator of respons	sibility for compliance with any other federal, state, or local laws
Ü	8	
Printed Name: Kyle	<u>Littrell</u> Tit	le: SH&E Supervisor
Signature	Sterly Da	te: 12/2/2019
email:Kyle_Littrell@	extoenergy.com Tele	ephone:
OCD Only		
Received by: Cristina Ea	ads Date	01/27/2020
112307, 00 0 J.	Date	•

Received by OCD: 5/11/2020 9:26:22 AM Form C-141 State of New Mexico Page 3 Oil Conservation Division

☐ Laboratory data including chain of custody

		Page 3 of 33
Incident ID	NCE2002756541	
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?	<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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well 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 	ls.

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.

Received by OCD: 5/11/2020 9:26:22 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page	4 n	f 3:
1 ugc	70	

Incident ID	NCE2002756541
District RP	
Facility ID	
Application ID	

regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by failed to adequately investigate and remediate contamination that pose	to the best of my knowledge and understand that pursuant to OCD rules and se notifications and perform corrective actions for releases which may endanger y 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 laws
Printed Name:Kyle Littrell	Title:SH&E Coordinator
Signature:	Date:04/20/2020
email: Kyle_Littrell@xtoenergy.com	Telephone:(432)-221-7331
OCD Only	
Received by:	Date:

Received by OCD: 5/11/2020 9:26:22 AM State of New Mexico
Page 6 Oil Conservation Division

	Page 3 of
Incident ID	NCE2002756541
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 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 OD	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 certa may 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 compliance with any other federal, state, or local laws and/or regulatore, reclaim, and re-vegetate the impacted surface area to the caccordance with 19.15.29.13 NMAC including notification to the	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Printed Name: Kyle Littrell	Title: SH&E Supervisor
Printed Name: Kyle Littrell Signature: Kyle Littrell	Date:04/20/2020
email:Kyle_Littrell@xtoenergy.com	Telephone: 432-221-7331
OCD Only	
Received by:	Date:
	y 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:



LT Environmental, Inc.

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

April 24, 2020

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

RE: Closure Request Addendum

Poker Lake Unit 261

Incident Number NCE2002756541

Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following addendum to an original Closure Request submitted February 14, 2020. This addendum provides an update of delineation activities at the Poker Lake Unit 261 (Site), located in Unit J, Section 21, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1), in response to the denial of the closure request by the New Mexico Oil Conservation Division (NMOCD). In the denial, NMOCD required XTO confirm the lateral extent of the release did not extend off pad through the subsurface. NMOCD requested delineation samples immediately north of the release extent to confirm soil meets the reclamation requirements (New Mexico Administration Code (NMAC) 19.15.29.13). Based on additional work conducted, XTO is requesting no further action (NFA) for Incident Number NCE2002756541.

BACKGROUND

On February 14, 2020, LTE submitted a Closure Request to NMOCD for a release from a failed seal on a transfer pump, resulting in approximately 141.23 barrels (bbls) of produced water released within and around a lined containment on the caliche well pad. XTO recovered free standing fluids with a hydrovacuum and excavated approximately 6 square feet of affected soil. A total of approximately 2 cubic yards of impacted soil were removed within the release extent. LTE personnel collected preliminary, delineation, and excavation soil samples within the release extent from December 2019 to February 2020. Closure was requested due to laboratory analytical results for preliminary, delineation, and excavation soil samples indicating residual soil was compliant with the Closure Criteria.

LTE collected two discrete soil samples (SS01 and SS02) from a depth of approximately 0.5 feet below ground surface (bgs) within the affected area on December 4, 2019 (Figure 2). Soil samples SS01 and SS02 exhibited chloride concentrations of 11,100 milligrams per kilogram (mg/kg) and 15,700 mg/kg, respectively. On March 26, 2020, NMOCD denied closure, via email, for the following reason:



Bratcher, M. Page 2

The OCD has denied the submitted Closure Report C-141 for incident # NCE2002756541 for the following reason:

 Horizontal delineation has not been completed. The edges -horizontal definition- of a liquid release must be determined. A visual footprint on the surface is not sufficient or adequate to assess the horizontal extent of the release.

Upon clarification, NMOCD explained that because the release extended to the edge of the well pad, XTO would need to collect samples off pad to ensure the release did not migrate through the subsurface and impact the top four feet of soil above the reclamation standard.

ADDITIONAL SITE ACTIVITIES

LTE conducted additional delineation sampling on April 8, 2020, to confirm the extent of the release did not reach the off-pad area. The release extent and delineation soil sample locations are depicted on Figure 3. In response to NMOCD, potholes PH01 and PH02 were advanced via track-mounted backhoe approximately 25 feet north of preliminary soil samples SS01 and SS02. Two soil samples were collected from each pothole at depths of approximately 1 foot and 2 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 1. Photographic documentation was conducted during delineation activities and are included in Attachment 2.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with location, date, time, sampler initials, method of analysis, and immediately placed on ice. The soil samples were transported at 4 degrees Celsius (°C) under strict chain-of-custody procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of chloride by United States Environmental Protection Agency (EPA) Method 300.0. The potholes were backfilled with the soil removed.

SOIL ANALYTICAL RESULTS

Laboratory analytical results indicated delineation soil samples PH01/PH01A and PH02/PH02A collected at approximately 1-foot and 2 feet bgs were compliant with the NMOCD Table 1 Closure Criteria for chloride concentrations and meet the reclamation standards (NMAC 19.15.29.13) in the top 4 feet. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Attachment 3.

CLOSURE REQUEST

Given the proximity to the edge of the pad where this release occurred, LTE advanced two potholes approximately 25 feet north of preliminary soil sample locations SS01 and SS02 to



Bratcher, M. Page 3

confirm the lateral definition of impacts from the produced water release. Laboratory analytical results for delineation soil samples PH01/PH01A and PH02/PH02A indicated chloride concentrations were compliant with the Closure Criteria and meet the reclamation requirements (NMAC 19.15.29.13) in the top 4 feet; therefore, the release is laterally defined, and no further remedial activities are warranted.

Initial response effort and remedial activities have mitigated impacts at this Site. XTO requests NFA for Incident Number NCE2002756541.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Kalui Jennings

Kalei Jennings

Project Environmental Scientist

Ashley L. Ager, M.S., P.G.

ashley L. ager

Senior Geologist

cc: Kyle Littrell, XTO

United States Bureau of Land Management – New Mexico

Robert Hamlet, NMOCD Victoria Venegas, NMOCD Cristina Eads, NMOCD

Appendices:

Figure 1 Site Location Map

Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations

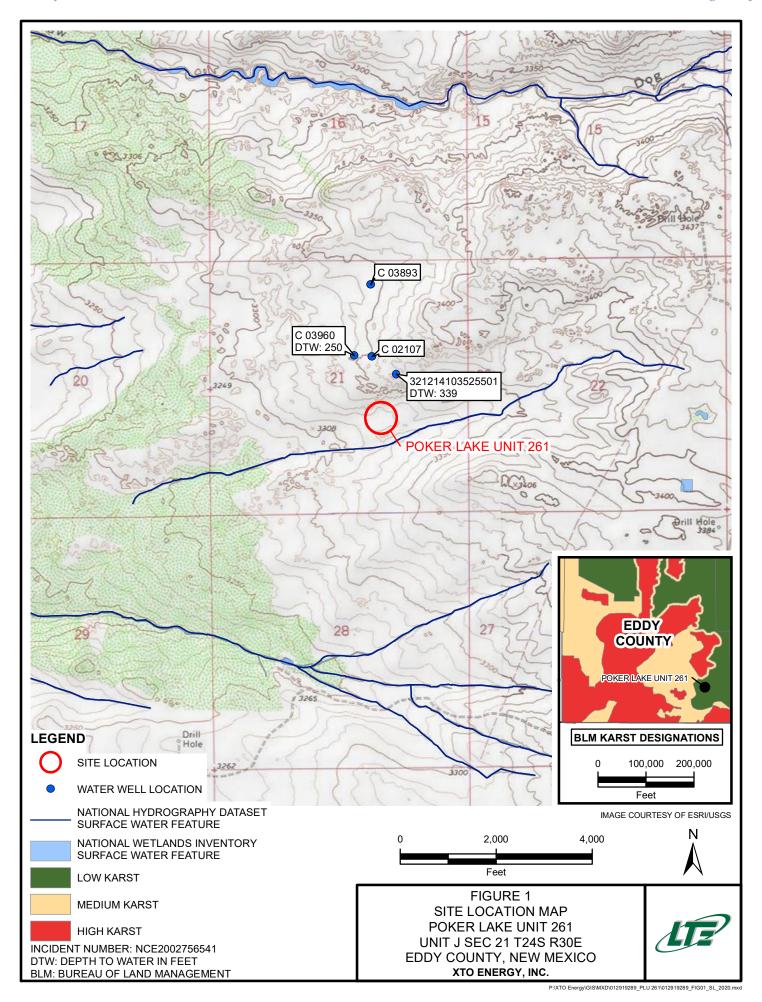
Table 1 Laboratory Analytical Results

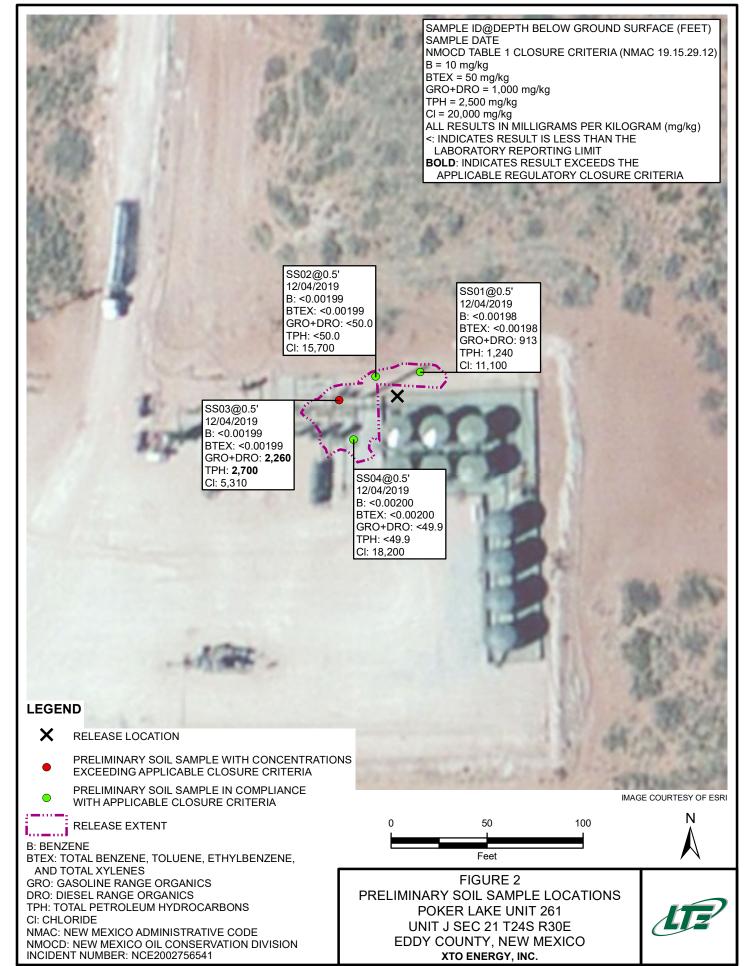
Attachment 1 Lithologic/Soil Sampling Logs

Attachment 2 Photographic Log

Attachment 3 Laboratory Analytical Reports







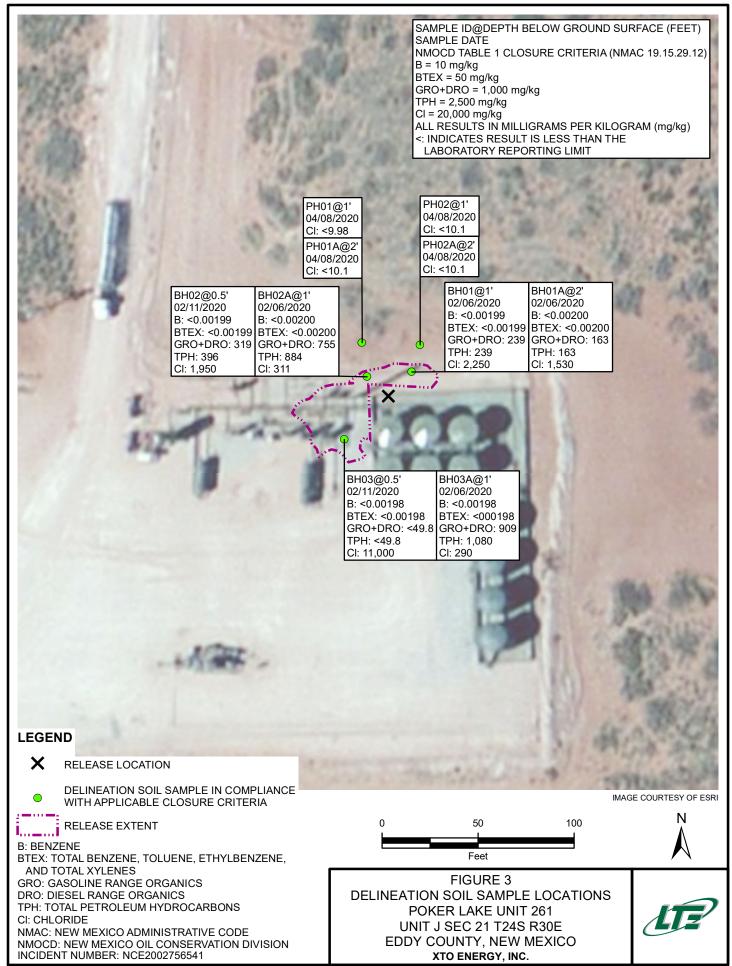


TABLE 1 SOIL ANALYTICAL RESULTS

POKER LAKE UNIT 261 INCIDENT NUMBER NCE2002756541 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)
NMOCD Table 1 Closure Criteria		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000	
SS01	0.5	12/04/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.9	913	325	913	1,240	11,100
SS02	0.5	12/04/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	15,700
SS03	0.5	12/04/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	2,260	438	2,260	2,700	5,310
SS04	0.5	12/04/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	18,200
BH01	1	02/06/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.3	239	<50.3	239	239	2,250
BH01A	2	02/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	163	<50.3	163	163	1,530
BH02	0.5	02/11/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	319	76.5	319	396	1,950
BH02A	1	02/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	755	129	755	884	311
BH03	0.5	02/11/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	11,000
вноза	1	02/06/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.2	909	175	909	1,080	290
FS01	2	02/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	326	58.7	326	385	262
SW01	0 - 2	02/06/2020	<0.00198	0.00368	0.0169	0.0223	0.0429	<50.0	1,140	145	1,140	1,290	381
SW02	0 - 2	02/11/2020	<0.00199	<0.00199	0.00209	<0.00199	0.00209	<49.8	915	143	915	1,060	2,460
PH01	1	04/08/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<9.98
PH01A	2	04/08/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<10.1
PH02	1	04/08/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<10.1
PH02A	2	04/08/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<10.1

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

Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

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







BH or PH Name:	Date:
PH01	4/8/2020
Site Name:	PLU 261
RP or Incident Number:	NCE2002756541
LTE Job Number:	12919289

LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 A proud member Compliance · Engineering · Remediation of WSP LITHOLOGIC / SOIL SAMPLING LOG Logged By: SL Method: trackhoe Lat/Long: Field Screening: Hole Diameter: Total Depth: Chloride, PID Comments: USCS/Rock Symbol Moisture Content Chloride (ppm) Sample # Sample Vapor (ppm) Depth Lithology/Remarks Depth (ft bgs) (ft bgs) 0 <186 5 N PH01 1' 1 Sand, no odor, no stain, m.-f., poorly graded, trace silt, brown, moist 2 <186 PH01A 2' Sand, no odor, no stain, m.-f., poorly graded, trace silt, brown, moist 4.6 N



LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220

BH or PH Name:	Date:
PH02	4/8/2020
Site Name:	PLU 261
RP or Incident Number:	NCE2002756541
LTE Job Number:	12919289

A proud member of WSP

Compliance · Engineering · Remediation

RP or Incident Number: NCE2002756541

LTE Job Number: 12919289

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: SL

Method: trackhoe

Lat/Long: Field Screening: Hole Diameter: Total Depth:

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
Moisture Content	Chloride (ppm)	Napor (mqq)	Z Z Staining	PH02 PH02A	Depth (ft bgs)	Depth (ft bgs) 0 1 2 3 4 7 8	USCS/Rock Symbol	Sand, no odor, no stain, mf., poorly graded, trace silt, brown, moist Sand, no odor, no stain, mf., poorly graded, trace silt, brown, moist
					- - - - - - - - -	9 10 11		

PHOTOGRAPHIC LOG



Photograph 1: View of delineation soil sample PH01 facing south.



Photograph 3: View of delineation soil sample PH02 facing east.



Photograph 2: View of delineation soil sample PH01 facing west.



Photograph 4: View of delineation soil sample PH02 facing north.

PLU 261 NCE2002756541

Photographs Taken: April 8, 2020









Analytical Report 658376

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 261 012919289 04.09.2020

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)



04.09.2020

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

Reference: XENCO Report No(s): 658376

PLU 261

Project Address:

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) 658376. 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. 658376 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

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 658376

LT Environmental, Inc., Arvada, CO

PLU 261

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	04.08.2020 14:00	1 ft	658376-001
PH01A	S	04.08.2020 14:10	2 ft	658376-002
PH02	S	04.08.2020 14:25	1 ft	658376-003
PH02A	S	04.08.2020 14:35	2 ft	658376-004

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: PLU 261

Project ID: 012919289 Work Order Number(s): 658376 Report Date: 04.09.2020
Date Received: 04.08.2020

Sami	ple	recei	pt no	on con	formances	and	comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 658376

LT Environmental, Inc., Arvada, CO

Project Name: PLU 261

Project Id:

Project Location:

012919289

Date Received in Lab: Wed 04.08.2020 16:22

Dan Moir **Contact:**

Report Date: 04.09.2020 12:55

Project Manager: Jessica Kramer

	Lab Id:	658376-00)1	658376-00	2	658376-00)3	658376-00)4		
Analysis Requested	Field Id:	PH01		PH01A		PH02		PH02A			
Anuiysis Requesieu	Depth:	1- ft		2- ft		1- ft		2- ft			
	Matrix:	SOIL	SOIL			SOIL		SOIL			
	Sampled:	04.08.2020 1	04.08.2020 14:00		4:10	04.08.2020 1	4:25	04.08.2020 1	4:35		
Chloride by EPA 300	Extracted:	04.08.2020 1	04.08.2020 18:00		8:00	04.08.2020 1	8:00	04.08.2020 1	8:00		
	Analyzed:	04.08.2020 2	3:41	04.08.2020 2	3:59	04.09.2020 0	0:05	04.09.2020 0	0:11		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		<9.98	9.98	<10.1	10.1	<10.1	10.1	<10.1	10.1		

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

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

Jessica Kramer

Jessica Kramer Project Manager



LT Environmental, Inc., Arvada, CO

PLU 261

Sample Id: **PH01** Lab Sample Id: 658376-001

Matrix:

Soil Date Collected: 04.08.2020 14:00 Date Received:04.08.2020 16:22

Sample Depth: 1 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

Tech: Analyst:

MAB

Date Prep: 04.08.2020 18:00 % Moisture: Basis:

Wet Weight

Seq Number: 3122420

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/k	9 04.08.2020 23:41	U	1



LT Environmental, Inc., Arvada, CO

PLU 261

Sample Id: PH01A

Matrix: Soil

Date Received:04.08.2020 16:22

Lab Sample Id: 658376-002

Date Collected: 04.08.2020 14:10

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: N

MAB

Date Prep: 04.08.2020 18:00

Basis:

Wet Weight

Seq Number: 3122420

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mg/kg	04.08.2020 23:59	U	1



LT Environmental, Inc., Arvada, CO

PLU 261

Sample Id: **PH02**

Soil

Date Received:04.08.2020 16:22

Lab Sample Id: 658376-003

Date Collected: 04.08.2020 14:25

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Seq Number: 3122420

Date Prep:

Matrix:

04.08.2020 18:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mø/kø	04.09.2020.00:05	U	1



LT Environmental, Inc., Arvada, CO

PLU 261

Sample Id: PH02A

Seq Number: 3122420

Matrix:

Date Received:04.08.2020 16:22

Lab Sample Id: 658376-004

Soil Date Collected: 04.08.2020 14:35

Sample Depth: 2 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

% Moisture:

Tech: Analyst:

MAB

Date Prep:

04.08.2020 18:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mo/ko	04 09 2020 00:11	H	1



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.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- Analyte was not detected.
- The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

ND Not Detected.

RLReporting 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

DLMethod 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

Flag

Flag



QC Summary 658376

LT Environmental, Inc.

PLU 261

7700870-1-BKS

Analytical Method: Chloride by EPA 300

Seq Number: 3122420

MB Sample Id: 7700870-1-BLK

E300P Prep Method:

Date Prep: 04.08.2020

LCSD Sample Id: 7700870-1-BSD Units

LCS %RPD RPD MB Spike LCS LCSD LCSD Limits **Parameter** Result Amount Result %Rec Result %Rec Limit

Result

Chloride <10.0 250 259 104 262 105 90-110 20 04.08.2020 21:43 1 mg/kg

Matrix: Solid

LCS Sample Id:

Analytical Method: Chloride by EPA 300

Seq Number:

3122420

658368-050

Matrix: Soil

%Rec

MS Sample Id:

658368-050 S

Result

%Rec

E300P Prep Method:

Limit

Analysis

Date

Date

04.08.2020Date Prep: MSD Sample Id: 658368-050 SD

Parent Sample Id: Parent Spike MS MS MSD **MSD** Limits %RPD RPD Units Analysis **Parameter**

199 20 04.08.2020 22:00 Chloride 271 488 109 487 109 90-110 0 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: Parent Sample Id: 3122420

658368-060

Result

Amount

Matrix: Soil

658368-060 S MS Sample Id:

E300P Prep Method:

04.08.2020 Date Prep:

MSD Sample Id: 658368-060 SD

MS **RPD Parent** Spike MS %RPD Units Analysis MSD **MSD** Limits Flag **Parameter** Limit Result Result %Rec Date Amount Result %Rec

Chloride

<9.94

199

213 107 214

90-110 108

0 20 mg/kg

04.08.2020 23:23

Received by QCD: 5/11/2920 9:26:22 AM

Received by QCD: 5/11/2920 9:26:22 AM

Circ
Relir

Revised Date 051418 Rev. 2018.1

Work Order No: U5837ce

Chain of Custody

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

	1	Ex.	Relinquished by: (Signature)	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 fisch losses are due to circumstances beyond the control 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.	Circle Method(s) and Metal(s) to be analyzed						1 HOZA	2040	PHOIA	1911	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:	Company Name:	Project Manager:	EA
		6	(Signature)	able only for the cost	and Metal(s) to be										ification	s: Yes No			7				912919	PL0 261	(432) 236-3849	Midland, TX 79705	3300 North A Street	LT Environmental, Inc.,	Dan Moir	BORATOR
	1			t of samples	o be ana						u	7	5	5	Matrix	N/A	N/A	No	0	Temp Blank:	Spencer Lo		9289			705	Street	ntal, Inc.,		ES
	V	7	Received by:	amples constitutions and shall not ach project and	9ZED 8RCRA						4.8.20	4.8.20	4.8.10	62.8.4	Date Sampled	Tota	Corre			Yes No	6							Permian office		Hobbs
		1	y: (Signature)	assume any real a charge of \$5	TCLP / SPLP 6010:						1435	1425	1410	1400	Time Sampled	Total Containers:	Correction Factor:		Thermometer ID	Wet Ice:	Due	Rush:	Routine	T	Email:			ffice		Midlan s,NM (575-392
			re)	sponsibility for a for each sampl	M Texas 11 P 6010: 8RC						1'	1,1	l'	1'	Depth				rID	Yes No	Due Date:	HH	tine	Turn Around	: slo@ltenv.c	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
1		13/1	0	any losses e submitted	s 11 Al Sb 8RCRA Sb						-	1	1	-	Numb	er of	Co	nta	aine	s					om, dmoir				erent)	-5440) EL
		10/	Date/Time	or expense or to Xenco,	Sb As Ba										TPH (E			_	,						ir@ltenv.con	Carlsbad	3104 Eas	XTO Energy	Kyle Littrell	Paso,TX -355-0900
O)	4	16/6 2	Ф	Kenco, its a s incurred but not an	Ba Be B				1)	×	×	×	×	Chloric										com	Carlsbad, NM 88220	3104 East Green Street	rgy	ell	(915)585-3) Atlanta,
			Relino	ffiliates an by the clier alyzed. The	B Cd Ca Cd Cr C	_			1						10.27											20	Street			3443 Lubi SA (770-4
		1	uished	d subconti nt if such lo	d Ca Cr Co Cr Co Cu P				12		1												-	ANAL						ock,TX (8
		2	Relinquished by: (Signature)	ractors. It a	o Cu Fe Pb Mg Mn I Pb Mn Mo Ni Se Ag																			LYSIS REQUEST						sk,TX (806)794-1296 -8800) Tampa,FL (813
		4	nature)	assigns sta due to circu rced unles	Pb Mg						-													QUEST	De	R		P		296 L (813-620
	-	9		andard ter imstances s previous	Mg Mn Mo Ni Se Ag Tl			1															-		Deliverables: EDD	Reporting:Level II	State o	Program: UST/PST		1-2000)
	>	\$	Receive	ms and cor beyond the ly negotiat	VIO NI K																				s: EDD	evel II	State of Project:	UST/PST		
		0	ed by: (S	nditions e control ed.	Se Ag		/				+												-			_evel III		_	Work	www.xei
		/	Received by: (Signature)		SiO2 N		/																		ADaPT	II ST/UST	[¬PRP □Brownfields	Order (www.xenco.com
	(,	שני		12 Na Sr Tl Sn ∪ V Zn 1631 / 245.1 / 7470 / 7471		/				<		-	Analyso	Sa	lab,	TATCH							>		TSU/	CP-00-000000000000000000000000000000000	ıfields	Work Order Comments	Page
	10	2)11	D		1 Sn U								101	- 1	mple Co	if receive	the de							ork Orc	Other:	RRP		n	nts	Ф
	10/00/0		Date/Time		V Zn 17471								30,000		Sample Comments	lab, if received by 4:30pm								Work Order Notes		evel IV	-	uperfund		of,
	6,00	2			: Hg								Vito 30.		ts	om om								Š	[[DE		_

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 04.08.2020 04.22.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 658376

Temperature Measuring device used: T-NM-007

Sample Ro	eceipt Checklist	Comments
#1 *Temperature of cooler(s)?	4	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	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 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)?	No	
#18 Water VOC samples have zero headspace?	N/A	

* Must be completed for	after-hours deliver	y of samples	prior to placii	ng in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan

Date: 04.08.2020

Checklist reviewed by: Jessica Weamer

Date: 04.09.2020