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	NRM2003448627
District RP	
Facility ID	
Application ID	

Release Notification

		Respo					
Responsible Party	TO Energy		OGRID	OGRID 5380			
Contact Name Kyle	Littrell		Contact '	Telephone 432-221-7331			
Contact email Kyle	Littrell@xtoenergy.c	com	Incident	# (assigned by OCD)			
Contact mailing address 88220	ss 522 W. Mermod	, Carlsbad, NM					
		Location o	of Release S	Source			
atitude 32.153746			Longitude	-103.998802			
14330		(NAD 83 in decin	nal degrees to 5 dec				
Site Name Corral C	nyon Expansion		Site Type	e Well Location			
Date Release Discover	ed 11/25/2019		API# (if a	pplicable) 30-015-42928 (Corral Canyon Fed Com 16H)			
Unit Letter Section	n Township	Range	Cor	unty			
Unit Letter Section P 5	Township 25S	Range 29E	Cor	unty			
P 5	258	29E	EDDY	unty			
	258	29E	EDDY				
P 5	258	29E	EDDY				
P 5 urface Owner: Sta	25S te ⊠ Federal □ Tri	29E That Private (Note that apply and attach care)	EDDY ame: Volume of	Release The justification for the volumes provided below)			
P 5 urface Owner:	25S te Federal Tri rial(s) Released (Select all Volume Released	29E ibal Private (Na Nature and that apply and attach ca id (bbls) 0.06	EDDY ame: Volume of	Release ic justification for the volumes provided below) Volume Recovered (bbls) 0.0			
P 5 urface Owner: Sta	25S te Federal Tri erial(s) Released (Select all Volume Released Volume Released	29E Shal Private (Na Nature and that apply and attach ca d (bbls) 0.06 d (bbls) 0.0	EDDY ame: Volume of alculations or specifical contents of the specifical	Release ic justification for the volumes provided below) Volume Recovered (bbls) 0.0 Volume Recovered (bbls) 0.0			
P 5 urface Owner:	25S te Federal Tri rial(s) Released (Select all Volume Released Volume Released	29E bal Private (Na Nature and that apply and attach ca d (bbls) 0.06 d (bbls) 0.0 con of dissolved chl	EDDY ame: Volume of alculations or specifical contents of the specifical	Release ic justification for the volumes provided below) Volume Recovered (bbls) 0.0			
P 5 urface Owner:	25S te Federal Tri erial(s) Released (Select all Volume Released Volume Released	29E That Private (Nature and that apply and attach cand (bbls) 0.06 The option of dissolved chills 10,000 mg/1?	EDDY ame: Volume of alculations or specifical contents of the specifical	Release ic justification for the volumes provided below) Volume Recovered (bbls) 0.0 Volume Recovered (bbls) 0.0			
P 5 urface Owner:	25S te Federal Tri rial(s) Released (Select all Volume Released Volume Released Is the concentration produced water >	29E The late of the private (Nature and that apply and attach cand (bbls) 0.06 The late of the late	EDDY ame: Volume of alculations or specifical contents of the specifical	Release ic justification for the volumes provided below) Volume Recovered (bbls) 0.0 Volume Recovered (bbls) 0.0 Use No			
P 5 urface Owner:	25S te Federal Tri rial(s) Released (Select all Volume Released Volume Released Is the concentrati produced water > Volume Released Volume Released	29E The late of the private (Nature and that apply and attach cand (bbls) 0.06 The late of the late	Volume of alculations or special loride in the	Release ic justification for the volumes provided below) Volume Recovered (bbls) 0.0 Volume Recovered (bbls) 0.0 Use No Volume Recovered (bbls)			

Received by OCD: 11/20/2020 2:36:08 PM te of New Mexico
Page 2 Oil Conservation Division

Incident ID	NRM2003440021
District RP	
Facility ID	
Application ID	

Was this a major	If VES for what reason(s) does the rest	ponsible party consider this a major release?
release as defined by	in TES, for what reason(s) does the resp	solisione party consider this a major release:
19.15.29.7(A) NMAC?	YES – An unauthorized release of vol	ume that results in a fire or is the result of a fire.
⊠ Yes □ No		
2		
	e Bratcher; Rob Hamlet; Victoria Venegas; "Griswo	whom? When and by what means (phone, email, etc)? ld, Jim, EMNRD"; blm_nm_cfo_spill@blm.gov; Crisha
	Initial 1	Response
The responsible	party must undertake the following actions immedia	ately 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 as	nd the environment.
Released materials ha	ave been contained via the use of berms of	r dikes, absorbent pads, or other containment devices.
All free liquids and r	recoverable materials have been removed	and managed appropriately.
If all the actions describe	ed above have <u>not</u> been undertaken, explai	n why:
	eleased to be contained via the use of bern eleased to be removed and managed.	ns or dikes, absorbent pads, or other containment devices.
has begun, please attach	a narrative of actions to date. If remedia	e remediation immediately after discovery of a release. If remediation al efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
regulations all operators are public health or the environ failed to adequately investig	required to report and/or file certain release n ment. The acceptance of a C-141 report by the gate and remediate contamination that pose a tl	ne best of my knowledge and understand that pursuant to OCD rules and otifications and perform corrective actions for releases which may endanger a OCD does not relieve the operator of liability should their operations have nreat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws
Printed Name: Adria	an Baker	Title: SH&E Coordinator
Signature:	ank	Date:12/9/2019
email:adrian_baker@	①xtoenergy.com	Telephone:432-236-3808
OCD Only		
Received by		Date:
Received by:		Date.

Received by OCD: 11/20/2020 2:36:08 PM te of New Mexico
Page 3 Oil Conservation Division

Incident ID	NRM2003440027
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.

50-100 (ft bgs)
☐ Yes ☒ No
☐ Yes 🏻 No
☐ Yes ☒ No
☐ Yes ☒ No
☐ Yes ☒ No
☐ Yes 🏿 No
☐ Yes ☒ No
tical extents of soil
s.

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.

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Page 4 Oil Conservation Division

	Page 4 of	62
Incident ID	NRM2003448627	
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	oCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Kyle Littrell	Title: SH&E Supervisor
Printed Name: Kyle Littrell Signature: Kyle Littrell	Date:11/09/2020
email: Kyle Littrell@xtoenergy.com	Telephone: (432)-221-7331
OCD Only	
Received by:	Date:

	Page 5 of	6 2
Incident ID	NRM2003448627	
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 is	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
□ Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in
Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature:	Date:11/09/2020
email: Kyle Littrell@xtoenergy.com	Telephone: 432-221-7331
OCD Only	
Received by: Chad Hensley	Date:02/23/2021
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:02/23/2021
Printed Name: Chad Hensley	Environmental Specialist Advanced



LT Environmental, Inc.

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

November 10, 2020

New Mexico Oil Conservation Division District 2 811 South First Street Artesia, New Mexico 88210

RE: Closure Request
Corral Canyon Expansion
Incident Number NRM2003448627
Eddy County, New Mexico

To Whom It May Concern:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Corral Canyon Expansion (Site) in Unit P, Section 5, Township 25 South, Range 29 East, in Eddy County, New Mexico (Figure 1) in response to the August 20, 2020 denial of closure by the New Mexico Oil Conservation Division (NMOCD). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a fire and release of crude oil at the Site to support the initial closure request. Based on field observations, field screening results, and laboratory analytical results following soil sampling events, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NRM2003448627.

RELEASE BACKGROUND

On November 25, 2019, fluid built up in a low point in the line, causing the release of approximately 0.06 barrels (bbls) of crude oil through the flare stack which resulted in a small fire. The fire extinguished itself and there were no freestanding fluids to recover. De minimis soil staining was removed by hand shoveling. XTO reported the release and requested closure on a Release Notification and Corrective Action Form C-141 (Form C-141) on December 9, 2019. The release was assigned Incident Number NRM2003448627.

The NMOCD denied the Closure Request for Incident Number NRM2003448627 for the following reason:

 This release is considered a major release, as it resulted in a fire, and will need to comply with 19.15.29.8, 19.15.29.9, 19.15.29.10, 19.15.29.11, 19.15.29.12, and 19.15.29.13 NMAC.

On November 13, 2019, an additional flare release and fire occurred at the same location as the above described November 25, 2019 flare release. The November 13, 2019 release was assigned

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District II Page 2

Incident Number NCE2002754520. A Closure Request was submitted on May 11, 2020 and was approved by the NMOCD on June 26,2020. The below soil sampling activities were completed in response to Incident Number NCE2002754520 but are applicable to Incident Number NRM2003448627, since the releases occurred in the same location and soil sampling activities were completed after the date of both flare releases.

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 between 50 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) Well C 04324, located approximately 368 feet south of the Site. The closest groundwater well has a reported depth to groundwater of approximately 65 feet bgs and a total depth of 69 feet bgs. The closest continuously flowing water or significant watercourse to the Site is an intermittent riverine, located approximately 962 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 not underlain by unstable geology (medium potential karst designation area). The Site receptors are identified on Figure 1.

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; and
- Chloride: 10,000 mg/kg

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On April 27, 2020, LTE personnel inspected the Site to evaluate the release area based on information provided on the Form C-141 and visual observations. LTE personnel collected three preliminary soil samples (SS01 through SS03) within the release area from a depth of approximately 0.5 feet bgs to assess for the presence or absence of soil impacts at the ground

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District II Page 3

surface. Soil was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The preliminary soil sample locations were mapped utilizing a handheld Global Positing System (GPS) unit and are depicted on Figure 2. Photographic documentation of the release was conducted, and a photographic log of the Site is included in Attachment 1.

Preliminary soil samples 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 transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B, TPH- GRO,TPH-DRO, TPH-oil range organics (ORO) following EPA Method 8015M/D, and chloride following EPA Method 300.0.

Based on laboratory analytical results for the preliminary soil samples, visual observations, and field screening results, excavation activities did not appear warranted; however, additional site assessment activities were scheduled to further confirm the absence of impacted soil.

On April 30, 2020, LTE personnel returned to the Site to oversee additional soil assessment activities. Three potholes (PH01 through PH03) were advanced via track-mounted backhoe, to a depth of approximately 2 feet bgs at the SS01 through SS03 preliminary soil sample locations. Soil samples were collected at depths of approximately 1-foot bgs (PH01 through PH03) and 2 feet bgs (PH01A through PH03A) at each pothole location. Soil from the three potholes was field screened utilizing a PID and Hach® chloride QuanTab® test strips. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 2. The delineation soil samples were collected, handled, and analyzed as described above at Xenco in Carlsbad, New Mexico. The delineation soil sample locations are depicted on Figure 3.

ANALYTICAL RESULTS

Laboratory analytical results indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in preliminary soil samples SS01 through SS03 collected at a depth of approximately 0.5 feet bgs, and in delineation soil samples collected from potholes PH01 through PH03 at depths ranging from 1 foot and 2 feet bgs. Laboratory analytical results are depicted on Figures 2 and 3 and summarized in Table 1. The laboratory analytical reports are included as Attachment 3.

CONCLUSIONS

Preliminary soil samples SS01 through SS03 and delineation soil samples PH01/PH01A through PH03/PH03A were collected from within the release area from depths ranging from 0.5 feet to 2 feet bgs to assess for the presence or absence of soil impacts as a result of the November 25,



District II Page 4

2019, release. Laboratory analytical results for all soil samples indicated that benzene, BTEX, TPH-GRO/TPH-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 petroleum hydrocarbon odors were not identified within the release area.

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, and no soil excavation was required as a result of the crude oil fire. XTO requests NFA for Incident Number NRM2003448627.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Xaeu Jennings

Kalei Jennings

Project Environmental Scientist

Ashley L. Ager, 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

Appendices:

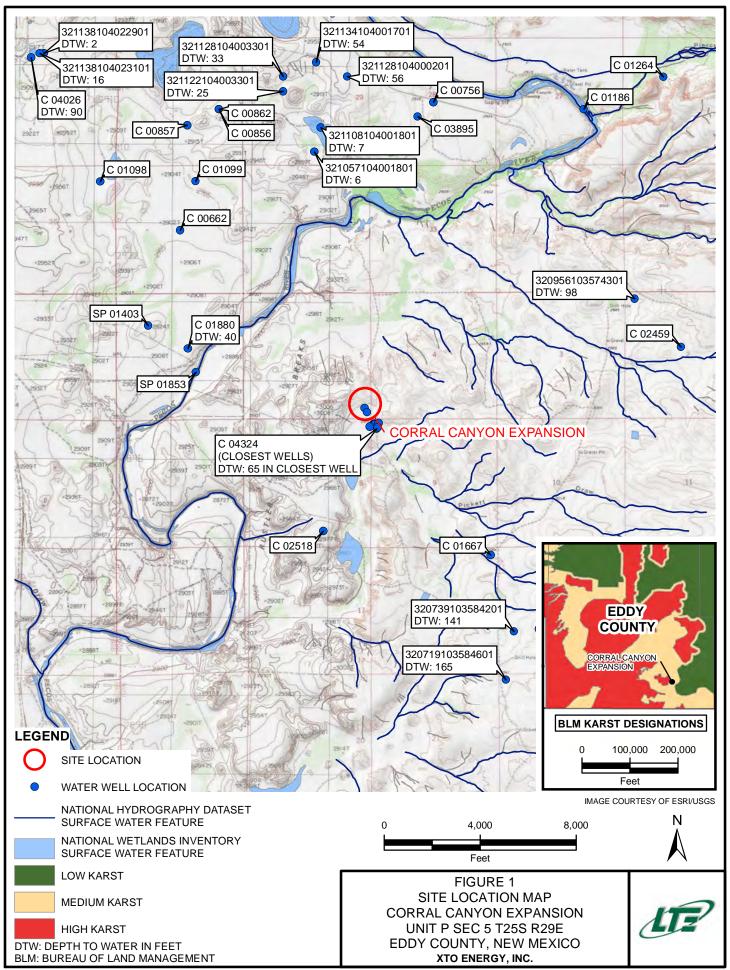
Figure 1 Site Location Map

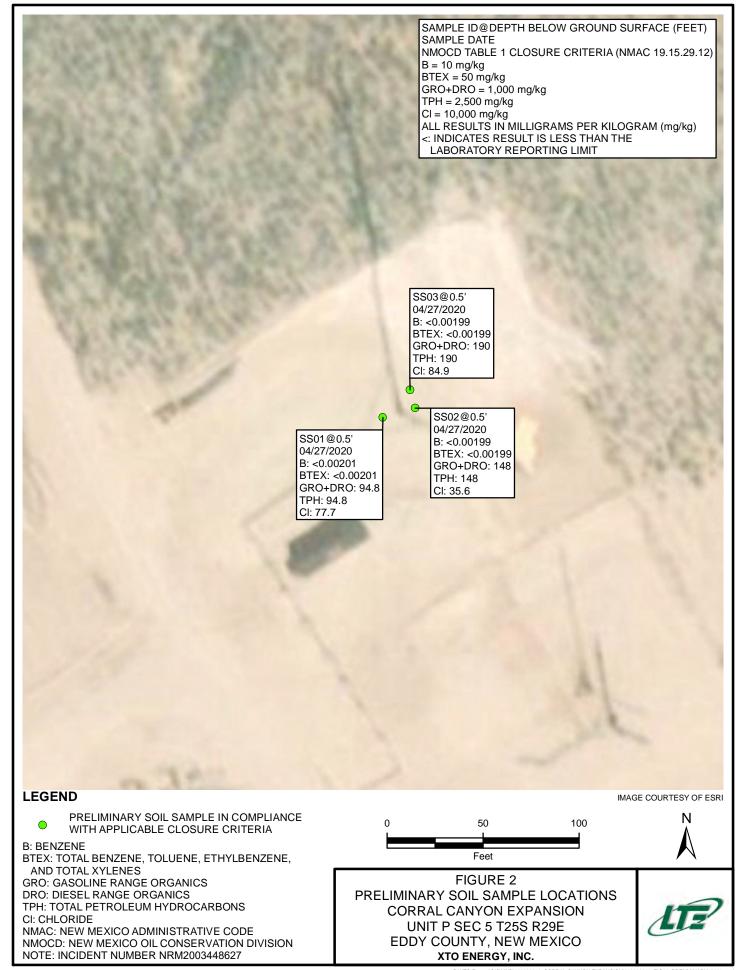
Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations

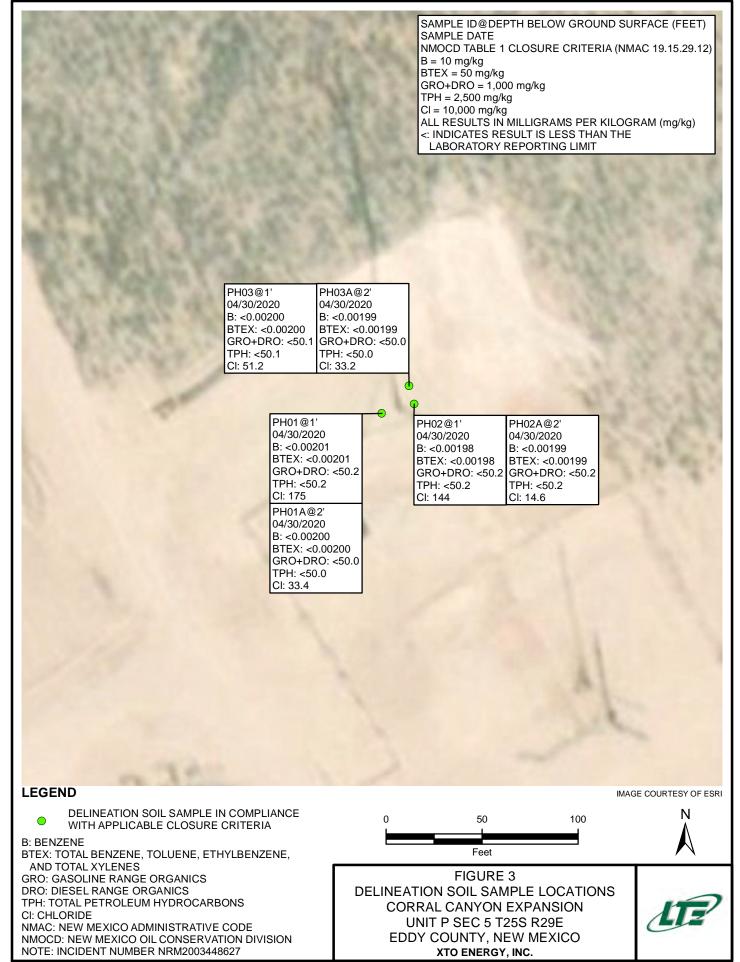
Table 1 Soil Analytical Results
Attachment 1 Photographic Logs

Attachment 2 Lithologic/Soil Sampling Logs

Attachment 3 Laboratory Analytical Reports







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TABLE 1 SOIL ANALYTICAL RESULTS

CORRAL CANYON EXPANSION INCIDENT NUMBER NRM2003448627 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		teria	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000
SS01	0.5	04/27/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	94.8	<50.0	94.8	94.8	77.7
SS02	0.5	04/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	148	<50.2	148	148	35.6
SS03	0.5	04/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	190	<50.2	190	190	84.9
PH01	1	04/30/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	175
PH01A	2	04/30/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	33.4
PH02	1	04/30/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.2	<50.2	<50.2	<50.2	<50.2	144
PH02A	2	04/30/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	14.6
PH03	1	04/30/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	51.2
PH03A	2	04/30/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	33.2

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





PHOTOGRAPHIC LOG



Photograph 1: View of preliminary samples SSO2 and SSO3 facing southeast.



Photograph 2: View of preliminary sample SS01 facing northeast.

Corral Canyon Expansion Incident Number NRM2003448627 Photographs Taken: April 27, 2020





	LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 A proud member of WSP Compliance · Engineering · Remediation LITHOLOGIC / SOIL SAMPLING LOG								BH or PH Name: PH 1 Date: SSOLA-B 4-30-20 Site Name: The Cottal Caryen Figuresian RP or Incident Number: LTE Job Number: 0179 2053			
at/Lon					SAMPI Field Scree	ning:			Logged By: JAVI	stasey	Method: Facework of Total Depth:	
Comme	15374c	,-103	99	8802	Chloride, P	TD CL	LIPI	7	NI	A	1'-2'	
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)				Lithology	y/Remarks	
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1	LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 A proud member of WSP Compliance · Engineering · Remediation								Site Nam		-3 COVIAI	Date: 4-30-20 Conyon Expunsion
		ellioei	Co	mpliance - Er	ngineering	- Remedia	ation		_	Number:	012920	2003
_		LITH	01.00	CIC / SOII	SAMPI	LINGLO)G		Logged E		1	
Lat/Lo	na.	Lilli	OLO	ic room	SOIL SAMPLING LOG Field Screening:					meter.	lusy	Total Depth:
	-	4-103	.44	8802	Chloride, F		IPI	P	N/A 1'-2'			
Comm	nents:											
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol				Lithology	/Remarks
				7.75	I	0						
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					+	12						

	proud m	ember		LT Envir 508 West Carlsbad, N mpliance - En	Stevens ew Mexic	Street to 88220				Date: 4-30-20 Curven Enpansion
Lat/Lot	ng 15374				Field Scree Chloride, F	ning:		"ס	Logged By: Terris / 45-49 Hole Diameter:	Method: Excusitos Total Depth:
Comme	ents:	9,70	7.77	1102	Cilioride, 1	w ce	112		7//7	1-2
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/F	Remarks
		77-57	1			0				
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Analytical Report 659884

for

LT Environmental, Inc.

Project Manager: Kalei Jennings

Corral Canyon Expansion 012920053 04.28.2020

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)



04.28.2020

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

Reference: XENCO Report No(s): **659884 Corral Canyon Expansion**Project Address:

Kalei Jennings:

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) 659884. 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. 659884 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 659884

LT Environmental, Inc., Arvada, CO

Corral Canyon Expansion

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	04.27.2020 12:08	0.5 ft	659884-001
SS02	S	04.27.2020 13:00	0.5 ft	659884-002
SS03	S	04.27.2020 13:20	0.5 ft	659884-003

Page 26 of 62

CASE NARRATIVE

XENCO
LABORATORIES

Client Name: LT Environmental, Inc. Project Name: Corral Canyon Expansion

 Project ID:
 012920053
 Report Date:
 04.28.2020

 Work Order Number(s):
 659884
 Date Received:
 04.27.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 659884

LT Environmental, Inc., Arvada, CO

Project Name: Corral Canyon Expansion

Project Id: 012920053
Contact: Kalei Jennings

Project Location:

Date Received in Lab: Mon 04.27.2020 15:42

Report Date: 04.28.2020 12:02

Project Manager: Jessica Kramer

	Lab Id:								
	Lub Iu.	659884-0	01	659884-0	002	659884-0	03		
Analysis Requested	Field Id:	SS01		SS02		SS03			
Anaiysis Kequesiea	Depth:	0.5- ft		0.5- ft		0.5- ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	04.27.2020	12:08	04.27.2020	13:00	04.27.2020	13:20		
BTEX by EPA 8021B	Extracted:	04.27.2020 17:40		04.27.2020	17:40	04.27.2020	17:40		
	Analyzed:	04.28.2020	00:31	04.28.2020	00:53	04.28.2020	01:14		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199		
Toluene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199		
Ethylbenzene			0.00201	< 0.00199	0.00199	< 0.00199	0.00199		
m,p-Xylenes		< 0.00402	0.00402	< 0.00398	0.00398	< 0.00398	0.00398		
o-Xylene			0.00201	< 0.00199	0.00199	< 0.00199	0.00199		
Total Xylenes		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199		
Total BTEX		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199		
Chloride by EPA 300	Extracted:	04.27.2020	17:04	04.27.2020	17:04	04.27.2020	17:04		
	Analyzed:	04.27.2020	17:32	04.27.2020	17:37	04.27.2020	17:43		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		77.7	50.2	35.6	9.94	84.9	50.1		
TPH by SW8015 Mod	Extracted:	04.27.2020	17:00	04.27.2020	17:00	04.27.2020	17:00		
	Analyzed:	04.27.2020	19:04	04.27.2020	19:24	04.27.2020	19:44		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	< 50.2	50.2	< 50.2	50.2		
Diesel Range Organics (DRO)		94.8	50.0	148	50.2	190	50.2		
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	< 50.2	50.2	< 50.2	50.2		
Total GRO-DRO		94.8	50.0	148	50.2	190	50.2		
Total TPH		94.8	50.0	148	50.2	190	50.2		

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 Weamer



LT Environmental, Inc., Arvada, CO

Corral Canyon Expansion

Soil

Date Received:04.27.2020 15:42

Lab Sample Id: 659884-001 Date Collected: 04.27.2020 12:08

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Matrix:

% Moisture:

Tech: MAB

MAB

SS01

Date Prep: 04.27.2020 17:04

Basis: Wet Weight

Seq Number: 3124306

Sample Id:

Analyst:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	77.7	50.2	mg/kg	04.27.2020 17:32		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

DTH

% Moisture:

Analyst: DTH

Tech:

Date Prep: 04.27.2020 17:00

Basis: Wet Weight

Seq Number: 3124321

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	04.27.2020 19:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	94.8	50.0		mg/kg	04.27.2020 19:04		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	04.27.2020 19:04	U	1
Total GRO-DRO	PHC628	94.8	50.0		mg/kg	04.27.2020 19:04		1
Total TPH	PHC635	94.8	50.0		mg/kg	04.27.2020 19:04		1
Surrogate	C	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	



LT Environmental, Inc., Arvada, CO

Corral Canyon Expansion

Sample Id: SS01 Matrix: Soil Date Received:04.27.2020 15:42

Lab Sample Id: 659884-001 Date Collected: 04.27.2020 12:08 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 04.27.2020 17:40 Basis: Wet Weight

Seq Number: 3124302

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.28.2020 00:31	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.28.2020 00:31	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.28.2020 00:31	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.28.2020 00:31	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.28.2020 00:31	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	04.28.2020 00:31	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.28.2020 00:31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	114	%	70-130	04.28.2020 00:31		
4-Bromofluorobenzene		460-00-4	106	%	70-130	04.28.2020 00:31		



Analytical Method: Chloride by EPA 300

MAB

Certificate of Analytical Results 659884

LT Environmental, Inc., Arvada, CO

Corral Canyon Expansion

Sample Id: **SS02** Matrix: Soil

Lab Sample Id: 659884-002 Date Collected: 04.27.2020 13:00 Sample Depth: 0.5 ft

Prep Method: E300P

Date Received:04.27.2020 15:42

% Moisture:

% Moisture:

04.27.2020 19:24

70-135

MAB Analyst: Date Prep: 04.27.2020 17:04 Basis: Wet Weight

Seq Number: 3124306

Tech:

Result **Parameter** Cas Number RLUnits **Analysis Date** Dil Flag Chloride 16887-00-6 35.6 9.94 mg/kg 04.27.2020 17:37 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

DTH Tech:

Analyst: DTH Basis: Wet Weight Date Prep: 04.27.2020 17:00

84-15-1

Seq Number: 3124321

o-Terphenyl

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	04.27.2020 19:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	148	50.2		mg/kg	04.27.2020 19:24		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	04.27.2020 19:24	U	1
Total GRO-DRO	PHC628	148	50.2		mg/kg	04.27.2020 19:24		1
Total TPH	PHC635	148	50.2		mg/kg	04.27.2020 19:24		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	104	%	70-135	04.27.2020 19:24		

111



LT Environmental, Inc., Arvada, CO

Corral Canyon Expansion

Sample Id: **SS02** Matrix: Soil Date Received:04.27.2020 15:42

Lab Sample Id: 659884-002 Date Collected: 04.27.2020 13:00 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

MAB Analyst: Date Prep: 04.27.2020 17:40 Basis: Wet Weight

Seq Number: 3124302

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.28.2020 00:53	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.28.2020 00:53	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.28.2020 00:53	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.28.2020 00:53	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.28.2020 00:53	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.28.2020 00:53	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.28.2020 00:53	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	116	%	70-130	04.28.2020 00:53		
4-Bromofluorobenzene		460-00-4	105	%	70-130	04.28.2020 00:53		



LT Environmental, Inc., Arvada, CO

Corral Canyon Expansion

Sample Id: Matrix: Soil

Date Received:04.27.2020 15:42

Lab Sample Id: 659884-003 Date Collected: 04.27.2020 13:20 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

SS03

Prep Method: E300P

Tech: MAB % Moisture:

MAB Analyst:

Date Prep: 04.27.2020 17:04 Basis:

Wet Weight

Seq Number: 3124306

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	84.9	50.1	mg/kg	04.27.2020 17:43		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Basis: 04.27.2020 17:00

Wet Weight

Analyst: Seq Number: 3124321

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	04.27.2020 19:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	190	50.2		mg/kg	04.27.2020 19:44		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	04.27.2020 19:44	U	1
Total GRO-DRO	PHC628	190	50.2		mg/kg	04.27.2020 19:44		1
Total TPH	PHC635	190	50.2		mg/kg	04.27.2020 19:44		1
Surrogate	•	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Date Prep:

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	105	%	70-135	04.27.2020 19:44
o-Terphenyl	84-15-1	111	%	70-135	04.27.2020 19:44



LT Environmental, Inc., Arvada, CO

Corral Canyon Expansion

Sample Id: SS03 Matrix: Soil Date Received:04.27.2020 15:42

Lab Sample Id: 659884-003 Date Collected: 04.27.2020 13:20 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 04.27.2020 17:40 Basis: Wet Weight

Seq Number: 3124302

Parameter	Cas Number	Result	\mathbf{RL}		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.28.2020 01:14	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.28.2020 01:14	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.28.2020 01:14	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.28.2020 01:14	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.28.2020 01:14	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.28.2020 01:14	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.28.2020 01:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	70-130	04.28.2020 01:14		
1,4-Difluorobenzene		540-36-3	115	%	70-130	04.28.2020 01:14		



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Flag

E300P

E300P

Prep Method:

RPD

659884 **QC Summary**



LT Environmental, Inc.

Corral Canyon Expansion

Analytical Method: Chloride by EPA 300

Seq Number: 3124306 Matrix: Solid Date Prep: 04.27.2020

LCS Sample Id: 7702149-1-BKS 7702149-1-BLK LCSD Sample Id: 7702149-1-BSD MB Sample Id:

LCS MB Spike LCS Limits %RPD Units Analysis LCSD LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Chloride <10.0 250 250 100 250 90-110 0 20 04.27.2020 16:26 100 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: Seq Number: 3124306 Matrix: Soil Date Prep: 04.27.2020 659876-001 S 659876-001 MS Sample Id: MSD Sample Id: 659876-001 SD Parent Sample Id:

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec %Rec Limit Date Result 20 04.27.2020 16:43 Chloride 1230 201 1410 90 1420 95 90-110 1 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: 3124306 Seq Number: Matrix: Soil Date Prep: 04.27.2020 MS Sample Id: 659890-002 S MSD Sample Id: 659890-002 SD Parent Sample Id: 659890-002

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limits Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 20 04.27.2020 17:59 330 199 548 110 548 110 90-110 0 mg/kg

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method: 3124321 Matrix: Solid Seq Number: Date Prep: 04.27.2020

MB Sample Id: 7702167-1-BLK LCS Sample Id: 7702167-1-BKS LCSD Sample Id: 7702167-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis **Parameter** Result Limit Result Amount %Rec %Rec Date Result Gasoline Range Hydrocarbons (GRO) 04.27.2020 13:00 < 50.0 97 35 1000 858 86 967 70-135 12 mg/kg 04.27.2020 13:00 Diesel Range Organics (DRO) 958 1090 70-135 13 35 < 50.0 1000 96 109 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Flag Date Flag %Rec 04.27.2020 13:00 1-Chlorooctane 121 127 132 70-135 % 04.27.2020 13:00 o-Terphenyl 131 127 122 70-135 %

Analytical Method: TPH by SW8015 Mod

Prep Method: Seq Number: 3124321 Matrix: Solid Date Prep: 04.27.2020

MB Sample Id: 7702167-1-BLK

MBUnits Analysis Flag **Parameter** Result Date Motor Oil Range Hydrocarbons (MRO) 04.27.2020 12:40 < 50.0 mg/kg

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

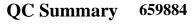
[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample = Parent Result = MS/LCS Result = MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

SW8015P

Flag

Flag





LT Environmental, Inc.

Corral Canyon Expansion

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method:

Seq Number: 3124321 Matrix: Soil Date Prep: 04.27.2020 MS Sample Id: 659819-001 S Parent Sample Id: 659819-001 MSD Sample Id: 659819-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	< 50.3	1010	935	93	935	94	70-135	0	35	mg/kg	04.27.2020 14:01
Diesel Range Organics (DRO)	< 50.3	1010	1060	105	1060	106	70-135	0	35	mg/kg	04.27.2020 14:01

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		114		70-135	%	04.27.2020 14:01
o-Terphenyl	115		114		70-135	%	04.27.2020 14:01

SW5035A Analytical Method: BTEX by EPA 8021B Prep Method:

Seq Number: 3124302 Matrix: Solid Date Prep: 04.27.2020 MB Sample Id: 7702139-1-BLK LCS Sample Id: 7702139-1-BKS LCSD Sample Id: 7702139-1-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	0.114	114	0.123	123	70-130	8	35	mg/kg	04.27.2020 22:02
Toluene	< 0.00200	0.100	0.101	101	0.112	112	70-130	10	35	mg/kg	04.27.2020 22:02
Ethylbenzene	< 0.00200	0.100	0.0950	95	0.104	104	71-129	9	35	mg/kg	04.27.2020 22:02
m,p-Xylenes	< 0.00400	0.200	0.185	93	0.201	101	70-135	8	35	mg/kg	04.27.2020 22:02
o-Xylene	< 0.00200	0.100	0.0953	95	0.105	105	71-133	10	35	mg/kg	04.27.2020 22:02

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	114		108		111		70-130	%	04.27.2020 22:02
4-Bromofluorobenzene	106		96		97		70-130	%	04.27.2020 22:02

SW5035A Analytical Method: BTEX by EPA 8021B Prep Method: Seq Number: 3124302 Matrix: Soil Date Prep: 04.27.2020

MS Sample Id: 659820-011 S Parent Sample Id: 659820-011 MSD Sample Id: 659820-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.130	130	0.129	129	70-130	1	35	mg/kg	04.27.2020 22:44	
Toluene	< 0.00200	0.0998	0.114	114	0.114	114	70-130	0	35	mg/kg	04.27.2020 22:44	
Ethylbenzene	< 0.00200	0.0998	0.107	107	0.106	106	71-129	1	35	mg/kg	04.27.2020 22:44	
m,p-Xylenes	< 0.00399	0.200	0.207	104	0.205	103	70-135	1	35	mg/kg	04.27.2020 22:44	
o-Xylene	< 0.00200	0.0998	0.107	107	0.105	105	71-133	2	35	mg/kg	04.27.2020 22:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		109		70-130	%	04.27.2020 22:44
4-Bromofluorobenzene	98		100		70-130	%	04.27.2020 22:44



Company Name: Address:

3300 North A Street

LT Environmental, Inc., Permian office

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

Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Bill to: (if different)

Kyle Littrell

Company Name: Address:

3104 E Green Street XTO Energy

Program: UST/PST □PRP □Brownfields □RC

uperfund

www.xenco.com

Page

of.

Work Order Comments

State of Project:

Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296

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Revised Date 051418 Rev. 2018.1											G.
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Date/Time	Received by: (Signature)) 4	The state of the s		1.45		000	gnature)	d by: (Signature)	r: (Signature)	Relinquished by: (Signature)
-		by: (Signature)	0	Date/Time	Da	for each sample	d a charge of \$5	each project an	be applied to	arge of \$75.00 wi	of Service. Aerico will be insure only for the book of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample
	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 in the control of this document and relinquishment 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	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 to the control of this document and relinquishment 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	(enco, its a	pany to X	client com	rchase order from	tutes a valid pu	samples consti	nquishment of	document and rel	Notice: Signature of this
1631 / 245.1 / 7470 / 7471 : Hg	1631							alyzed	s) to be an	s) and Metal	Circle Method(s) and Metal(s) to be analyzed
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Sample Comments		t	Chloric	BTEX (Numb	Depth	Time Sampled	Date Sampled	Matrix	tification	Sample Identification
lab, if received by 4:30pm			de (E			Cu	Total Containers:	Total	NO N/A	ls: Yes	Sample Custody Seals:
TAT starts the day recevied by the	Т		PA 3			102	Correction Factor:	Correc	No NA	Yes	Cooler Custody Seals:
			300.			4007	しとい		No	Yes	Received Intact:
			0)	1	iner	ō	Thermometer ID	Т	6		Temperature (°C):
					s	(Yes) No	Wet Ice:	Yes)No	Temp Blank:		SAMPLE RECEIPT
)ate:	Due Date:		jo	Armando Trejo	Sampler's Name:
				-			Rush:				P.O. Number:
						ie ×	Routine			012920053	Project Number:
Work Order Notes	UEST	ANALYSIS REQUEST				Turn Around	Tur	on	n Expansion	Corral Canyon Expansion	Project Name:
11	Deliverables: EDD ADari				com	Email: atrejo@ltenv.com	Email:			432.236.3849	Phone:
Ę	Level	20	Carlsbad, NM 88220	risbad, i		City, State ZIP:			79705	Midland, TX 79705	City, State ZIP:
dad	Dovo! III										



Certificate of Analysis Summary 660344

LT Environmental, Inc., Arvada, CO

Project Name: The Corral Canyon Expansion

Project Id: 012920053 **Date Received in Lab:** Thu 04.30.2020 17:13

Contact: Tacoma Morrissey

Report Date: 05.06.2020 07:48 Project Manager: Jessica Kramer

Project Location:

1 Toject Location.								1	I OJECE IVI	anager.			
	Lab Id:	660344-0	001	660344-0	02	660344-0	003	660344-0	004	660344-0	005	660344-0	06
Analysis Paguastad	Field Id:	PH01		PH01A		PH02		PH02A		PH03		PH03A	
Analysis Requested	Depth:	1- ft		2- ft		1- ft		2- ft		1- ft		2- ft	
	Matrix:	SOIL	,	SOIL		SOIL		SOIL	,	SOIL		SOIL	
	Sampled:	04.30.2020	09:23	04.30.2020	09:25	04.30.2020	09:33	04.30.2020	09:38	04.30.2020	09:43	04.30.2020	09:45
BTEX by EPA 8021B	Extracted:	05.01.2020	11:30	05.01.2020	11:30	05.01.2020	11:30	04.30.2020	17:30	04.30.2020	17:30	04.30.2020	17:30
	Analyzed:	05.01.2020	13:27	05.01.2020	13:48	05.01.2020	14:10	05.01.2020	03:10	05.01.2020	03:31	05.01.2020	03:52
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene	·	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199
Toluene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199
Ethylbenzene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199
m,p-Xylenes		< 0.00402	0.00402	< 0.00400	0.00400	< 0.00397	0.00397	< 0.00398	0.00398	< 0.00399	0.00399	< 0.00398	0.00398
o-Xylene		< 0.00201	0.00201		0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199
Total Xylenes		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199
Total BTEX		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199
Chloride by EPA 300	Extracted:	04.30.2020	17:48	04.30.2020	17:48	04.30.2020	17:48	04.30.2020	17:48	05.01.2020	07:59	05.01.2020	07:59
	Analyzed:	04.30.2020	22:48	04.30.2020	22:53	04.30.2020	22:59	04.30.2020	23:05	05.01.2020	08:49	05.01.2020	09:06
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		175	10.0	33.4	9.90	141	9.88	14.6	9.92	51.2	9.92	33.2	9.98
TPH by SW8015 Mod	Extracted:	04.30.2020	17:30	04.30.2020	17:30	04.30.2020	17:30	04.30.2020	17:30	04.30.2020	17:30	04.30.2020	17:30
	Analyzed:	04.30.2020	19:18	04.30.2020	19:18	04.30.2020	20:19	04.30.2020	20:40	04.30.2020	21:00	04.30.2020	21:21
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	< 50.0	50.0	< 50.2	50.2	< 50.2	50.2	< 50.1	50.1	< 50.0	50.0
Diesel Range Organics (DRO)		< 50.2	50.2	< 50.0	50.0	< 50.2	50.2	< 50.2	50.2	< 50.1	50.1	< 50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		< 50.2	50.2	< 50.0	50.0	< 50.2	50.2	< 50.2	50.2	< 50.1	50.1	< 50.0	50.0
Total GRO-DRO		< 50.2	50.2	< 50.0	50.0	< 50.2	50.2	< 50.2	50.2	< 50.1	50.1	< 50.0	50.0
Total TPH		< 50.2	50.2	< 50.0	50.0	< 50.2	50.2	< 50.2	50.2	< 50.1	50.1	< 50.0	50.0

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

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

Jessica Weamer

Jessica Kramer Project Manager



Analytical Report 660344

for

LT Environmental, Inc.

Project Manager: Tacoma Morrissey

The Corral Canyon Expansion 012920053 05.06.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



05.06.2020

Project Manager: Tacoma Morrissey

LT Environmental, Inc. 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): 660344

The Corral Canyon Expansion

Project Address:

Tacoma Morrissey:

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) 660344. 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. 660344 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 660344

LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	04.30.2020 09:23	1 ft	660344-001
PH01A	S	04.30.2020 09:25	2 ft	660344-002
PH02	S	04.30.2020 09:33	1 ft	660344-003
PH02A	S	04.30.2020 09:38	2 ft	660344-004
PH03	S	04.30.2020 09:43	1 ft	660344-005
PH03A	S	04.30.2020 09:45	2 ft	660344-006

Page 42 of 62

CASE NARRATIVE

XENCO

Client Name: LT Environmental, Inc. Project Name: The Corral Canyon Expansion

 Project ID:
 012920053
 Report Date:
 05.06.2020

 Work Order Number(s):
 660344
 Date Received:
 04.30.2020

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



LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: PH01 Matrix: Soil Date Received:04.30.2020 17:13

Lab Sample Id: 660344-001 Date Collected: 04.30.2020 09:23 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 04.30.2020 17:48 Basis: Wet Weight

Seq Number: 3124742

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 175
 10.0
 mg/kg
 04.30.2020 22:48
 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 04.30.2020 17:30 Basis: Wet Weight

Seq Number: 3124745

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	04.30.2020 19:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	04.30.2020 19:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	04.30.2020 19:18	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	04.30.2020 19:18	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	04.30.2020 19:18	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Fla
1-Chlorooctane	111-85-3	99	%	70-135	04.30.2020 19:18	
o-Terphenyl	84-15-1	105	%	70-135	04.30.2020 19:18	



LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: PH01 Matrix: Soil Date Received:04.30.2020 17:13

Lab Sample Id: 660344-001 Date Collected: 04.30.2020 09:23 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

460-00-4

Analyst: MAB Date Prep: 05.01.2020 11:30 Basis: Wet Weight

Seq Number: 3124843

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	05.01.2020 13:27	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	05.01.2020 13:27	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	05.01.2020 13:27	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	05.01.2020 13:27	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	05.01.2020 13:27	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	05.01.2020 13:27	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	05.01.2020 13:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	113	%	70-130	05.01.2020 13:27		

106

70-130

05.01.2020 13:27



LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: PH01A Matrix: Soil Date Received:04.30.2020 17:13

Lab Sample Id: 660344-002 Date Collected: 04.30.2020 09:25 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: MAB Date Prep: 04.30.2020 17:48 Basis: Wet Weight

Seq Number: 3124742

MAB

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.4	9.90	mg/kg	04.30.2020 22:53		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 04.30.2020 17:30 Basis: Wet Weight

Seq Number: 3124749

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	04.30.2020 19:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	04.30.2020 19:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	04.30.2020 19:18	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	04.30.2020 19:18	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	04.30.2020 19:18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Fla
1-Chlorooctane	111-85-3	107	%	70-135	04.30.2020 19:18	
o-Terphenyl	84-15-1	118	%	70-135	04.30.2020 19:18	



LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: PH01A Matrix: Soil Date Received:04.30.2020 17:13

Lab Sample Id: 660344-002 Date Collected: 04.30.2020 09:25 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

MAB Analyst: Date Prep: 05.01.2020 11:30 Basis: Wet Weight

Seq Number: 3124843

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	05.01.2020 13:48	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	05.01.2020 13:48	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	05.01.2020 13:48	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	05.01.2020 13:48	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	05.01.2020 13:48	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	05.01.2020 13:48	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	05.01.2020 13:48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	70-130	05.01.2020 13:48		
1,4-Difluorobenzene		540-36-3	113	%	70-130	05.01.2020 13:48		



LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: PH02 Matrix: Soil Date Received:04.30.2020 17:13

Lab Sample Id: 660344-003 Date Collected: 04.30.2020 09:33 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 04.30.2020 17:48 Basis: Wet Weight

Seq Number: 3124742

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	141	9.88	mg/kg	04.30.2020 22:59		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

84-15-1

Analyst: DTH Date Prep: 04.30.2020 17:30 Basis: Wet Weight

Seq Number: 3124749

o-Terphenyl

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	04.30.2020 20:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	04.30.2020 20:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	04.30.2020 20:19	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	04.30.2020 20:19	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	04.30.2020 20:19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-135	04.30.2020 20:19		

110

70-135

04.30.2020 20:19



LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: PH02 Matrix: Soil Date Received:04.30.2020 17:13

Lab Sample Id: 660344-003 Date Collected: 04.30.2020 09:33 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

540-36-3

Analyst: MAB Date Prep: 05.01.2020 11:30 Basis: Wet Weight

Seq Number: 3124843

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	05.01.2020 14:10	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	05.01.2020 14:10	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	05.01.2020 14:10	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	05.01.2020 14:10	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	05.01.2020 14:10	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	05.01.2020 14:10	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	05.01.2020 14:10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	460-00-4	113	%	70-130	05.01.2020 14:10		

117

70-130

05.01.2020 14:10



LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: PH02A Matrix: Soil Date Received:04.30.2020 17:13

Lab Sample Id: 660344-004 Date Collected: 04.30.2020 09:38 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 04.30.2020 17:48 Basis: Wet Weight

Seq Number: 3124742

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.6	9.92	mg/kg	04.30.2020 23:05		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 04.30.2020 17:30 Basis: Wet Weight

Seq Number: 3124749

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	04.30.2020 20:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	04.30.2020 20:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	04.30.2020 20:40	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	04.30.2020 20:40	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	04.30.2020 20:40	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	F
1-Chlorooctane	111-85-3	89	%	70-135	04.30.2020 20:40	
o-Terphenyl	84-15-1	96	%	70-135	04.30.2020 20:40	



LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: PH02A Matrix: Soil Date Received:04.30.2020 17:13

Lab Sample Id: 660344-004 Date Collected: 04.30.2020 09:38 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

460-00-4

Analyst: MAB Date Prep: 04.30.2020 17:30 Basis: Wet Weight

Seq Number: 3124718

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	05.01.2020 03:10	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	05.01.2020 03:10	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	05.01.2020 03:10	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	05.01.2020 03:10	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	05.01.2020 03:10	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	05.01.2020 03:10	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	05.01.2020 03:10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	115	%	70-130	05.01.2020 03:10		

111

70-130

05.01.2020 03:10



LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: PH03 Matrix: Soil Date Received:04.30.2020 17:13

Lab Sample Id: 660344-005 Date Collected: 04.30.2020 09:43 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 05.01.2020 07:59 Basis: Wet Weight

Seq Number: 3124857

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	51.2	9.92	mg/kg	05.01.2020 08:49		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 04.30.2020 17:30 Basis: Wet Weight

Seq Number: 3124749

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	04.30.2020 21:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	04.30.2020 21:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	04.30.2020 21:00	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	04.30.2020 21:00	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	04.30.2020 21:00	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	84	%	70-135	04.30.2020 21:00
o-Terphenyl	84-15-1	92	%	70-135	04.30.2020 21:00



LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: PH03 Matrix: Soil Date Received:04.30.2020 17:13

Lab Sample Id: 660344-005 Date Collected: 04.30.2020 09:43 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

460-00-4

Analyst: MAB Date Prep: 04.30.2020 17:30 Basis: Wet Weight

Seq Number: 3124718

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	05.01.2020 03:31	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	05.01.2020 03:31	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	05.01.2020 03:31	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	05.01.2020 03:31	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	05.01.2020 03:31	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	05.01.2020 03:31	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	05.01.2020 03:31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	114	%	70-130	05.01.2020 03:31		

108

70-130

05.01.2020 03:31



PH03A

Certificate of Analytical Results 660344

LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: Matrix: Soil

Date Received:04.30.2020 17:13

Lab Sample Id: 660344-006 Date Collected: 04.30.2020 09:45 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

Tech: MAB

Analyst:

MAB

Date Prep: 05.01.2020 07:59 Basis:

Wet Weight

Seq Number: 3124857

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.2	9.98	mg/kg	05.01.2020 09:06		1

Analytical Method: TPH by SW8015 Mod

DTH

Prep Method: SW8015P

% Moisture:

DTH Tech:

Analyst:

Date Prep: 04.30.2020 17:30 Basis: Wet Weight

Seq Number: 3124749

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	04.30.2020 21:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	04.30.2020 21:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	04.30.2020 21:21	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	04.30.2020 21:21	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	04.30.2020 21:21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date]
1-Chlorooctane	111-85-3	90	%	70-135	04.30.2020 21:21	
o-Terphenyl	84-15-1	99	%	70-135	04.30.2020 21:21	



LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: PH03A Matrix: Soil Date Received:04.30.2020 17:13

Lab Sample Id: 660344-006 Date Collected: 04.30.2020 09:45 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

460-00-4

Analyst: MAB Date Prep: 04.30.2020 17:30 Basis: Wet Weight

Seq Number: 3124718

4-Bromofluorobenzene

Parameter	Cas Number	Result	\mathbf{RL}		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	05.01.2020 03:52	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	05.01.2020 03:52	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	05.01.2020 03:52	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	05.01.2020 03:52	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	05.01.2020 03:52	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	05.01.2020 03:52	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	05.01.2020 03:52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	114	%	70-130	05.01.2020 03:52		

106

70-130

05.01.2020 03:52



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

660344 **QC Summary**



LT Environmental, Inc.

The Corral Canyon Expansion

Analytical Method: Chloride by EPA 300

E300P Prep Method:

E300P

E300P

E300P

Analysis

Units

RPD

%RPD

Limite

Seq Number: 3124742 Matrix: Solid Date Prep: 04.30.2020 7702475-1-BLK LCS Sample Id: 7702475-1-BKS LCSD Sample Id: 7702475-1-BSD MB Sample Id:

RPD MB Spike LCS LCS Limits %RPD Units Analysis LCSD LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date

Chloride <10.0 250 257 103 257 103 90-110 0 20 04.30.2020 20:20 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: Seq Number: 3124857 Matrix: Solid Date Prep: 05.01.2020

7702477-1-BLK LCS Sample Id: 7702477-1-BKS LCSD Sample Id: 7702477-1-BSD MB Sample Id:

MB Spike LCS LCS LCSD LCSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec %Rec Limit Date Result 20 05.01.2020 08:37 Chloride <10.0 250 260 104 260 104 90-110 0 mg/kg

Analytical Method: Chloride by EPA 300

Parent

Prep Method: 3124742 Seq Number: Matrix: Soil Date Prep: 04.30.2020

MS

MS Sample Id: 660346-001 S MSD Sample Id: 660346-001 SD Parent Sample Id: 660346-001 MS

Spike MSD **MSD** Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 20 04.30.2020 20:37 189 200 393 102 391 101 90-110 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: 3124742 Matrix: Soil 04.30.2020 Seq Number: Date Prep:

Parent Sample Id: 660346-011 MS Sample Id: 660346-011 S MSD Sample Id: 660346-011 SD

RPD Parent Spike MS MS MSD MSD Limits %RPD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec %Rec Result 04.30.2020 21:57 Chloride 20 105 200 317 106 308 102 90-110 3 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: 3124857 Matrix: Soil 05.01.2020 Seq Number: Date Prep:

660344-005 S 660344-005 SD Parent Sample Id: 660344-005 MS Sample Id: MSD Sample Id:

Parent Spike MS MS Limits %RPD RPD Units Analysis MSD MSD Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec 05.01.2020 08:54 20 Chloride 51.2 199 258 104 263 106 90-110 2 mg/kg

Analytical Method: Chloride by EPA 300 3124857 05.01.2020 Seq Number: Matrix: Soil Date Prep:

660345-009 S 660345-009 SD MS Sample Id: MSD Sample Id: Parent Sample Id: 660345-009

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

05.01.2020 10:14 105 3 20 Chloride 12.0 199 221 228 109 90-110 mg/kg

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

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result

= MSD/LCSD Result

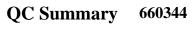
MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

E300P

Prep Method:

Flag

Flag





LT Environmental, Inc.

The Corral Canyon Expansion

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method: Seq Number: 3124745 Matrix: Solid Date Prep: 04.30.2020

LCS Sample Id: 7702485-1-BKS LCSD Sample Id: 7702485-1-BSD MB Sample Id: 7702485-1-BLK

RPD MB Spike LCS LCS Limits %RPD Units Analysis LCSD LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) 1000 1090 109 35 04.30.2020 12:30 < 50.0 857 86 70-135 24 mg/kg 04.30.2020 12:30 15 Diesel Range Organics (DRO) 1000 1120 112 961 70-135 35 mg/kg < 50.0 96

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** Flag %Rec Flag Flag Date %Rec %Rec 04.30.2020 12:30 1-Chlorooctane 94 127 111 70-135 % 04.30.2020 12:30 o-Terphenyl 101 120 108 70-135 %

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method:

3124749 Seq Number: Matrix: Solid Date Prep: 04.30.2020 LCS Sample Id: 7702481-1-BKS LCSD Sample Id: 7702481-1-BSD MB Sample Id: 7702481-1-BLK

MB Spike LCS LCS LCSD Limits %RPD **RPD** Units Analysis LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 04.30.2020 12:30 Gasoline Range Hydrocarbons (GRO) 95 35 < 50.0 1000 951 839 13 84 70-135 mg/kg 04.30.2020 12:30 Diesel Range Organics (DRO) < 50.0 1000 1070 107 921 92 70-135 15 35 mg/kg

MB MB LCS LCS LCSD Limits Units LCSD Analysis Surrogate %Rec Date %Rec Flag Flag %Rec Flag 04.30.2020 12:30 1-Chlorooctane 99 123 120 70-135 % 04.30.2020 12:30 o-Terphenyl 109 122 106 70-135 %

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method:

Seq Number: 3124745 Matrix: Solid Date Prep: 04.30.2020

MB Sample Id: 7702485-1-BLK

MB Units Analysis Flag **Parameter** Result Date Motor Oil Range Hydrocarbons (MRO) 04.30.2020 12:10 < 50.0 mg/kg

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method:

3124749 Seq Number: Matrix: Solid Date Prep: 04.30.2020

MB Sample Id: 7702481-1-BLK

MB Units Analysis Flag **Parameter** Result Date Motor Oil Range Hydrocarbons (MRO) 04.30.2020 12:10

< 50.0 mg/kg Seq Number:

Flag

Flag

Flag



QC Summary 660344

LT Environmental, Inc.

The Corral Canyon Expansion

Analytical Method: TPH by SW8015 Mod

3124745

660344-001

Matrix: Soil

SW8015P Prep Method:

Date Prep: 04.30.2020 MSD Sample Id: 660344-001 SD

MS Sample Id: 660344-001 S Parent Sample Id: RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD **MSD Parameter** Result Amount Result %Rec Result %Rec Limit Date

Gasoline Range Hydrocarbons (GRO) < 50.3 1010 916 91 35 04.30.2020 19:38 928 93 70-135 1 mg/kg 1010 1020 101 04.30.2020 19:38 Diesel Range Organics (DRO) < 50.3 1040 70-135 2 35 mg/kg 104

MS MS MSD MSD Limits Units Analysis **Surrogate** Flag Flag Date %Rec %Rec 04.30.2020 19:38 1-Chlorooctane 118 70-135 % 116 04.30.2020 19:38 o-Terphenyl 115 118 70-135 %

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method:

3124749 Seq Number: Matrix: Soil Date Prep: 04.30.2020 MS Sample Id: 660344-002 S MSD Sample Id: 660344-002 SD Parent Sample Id: 660344-002

Parent Spike MS MS MSD Limits %RPD **RPD** Units Analysis MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 04.30.2020 19:38 Gasoline Range Hydrocarbons (GRO) 35 <49.8 995 888 89 888 0 89 70-135 mg/kg 04.30.2020 19:38 Diesel Range Organics (DRO) <49.8 995 1000 101 1000 100 70-135 0 35 mg/kg

MS MS MSD Limits Units MSD Analysis **Surrogate** %Rec Flag %Rec Flag Date 04.30.2020 19:38 1-Chlorooctane 116 109 70-135 % 04.30.2020 19:38 o-Terphenyl 115 114 70-135 %

SW5035A Analytical Method: BTEX by EPA 8021B Prep Method:

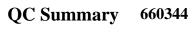
Seq Number: 3124718 Matrix: Solid Date Prep: 04.30.2020 LCS Sample Id: 7702473-1-BKS LCSD Sample Id: 7702473-1-BSD MB Sample Id: 7702473-1-BLK

LCS %RPD **RPD** Units MB Spike LCS Limits Analysis LCSD LCSD **Parameter** Result %Rec Limit Date Result Amount Result %Rec 04.30.2020 18:36 Benzene < 0.00200 0.100 0.0978 98 0.106 106 70-130 8 35 mg/kg 04.30.2020 18:36 Toluene < 0.00200 0.100 0.0899 90 0.0974 97 70-130 8 35 mg/kg mg/kg 04.30.2020 18:36 Ethylbenzene < 0.00200 0.100 0.0829 83 0.0909 91 71-129 9 35 04.30.2020 18:36 0.200 82 0.178 89 70-135 8 35 m,p-Xylenes < 0.00400 0.164 mg/kg 04.30.2020 18:36 0.0880 88 71-133 35 o-Xylene < 0.00200 0.100 0.0951 95 mg/kg

LCS MB MB LCS LCSD LCSD Limits Units Analysis Surrogate %Rec Flag %Rec Flag Date %Rec Flag 04.30.2020 18:36 1,4-Difluorobenzene 112 110 108 70-130 % 4-Bromofluorobenzene 102 101 97 70-130 % 04.30.2020 18:36

Flag

Flag



LT Environmental, Inc.

The Corral Canyon Expansion

SW5035A Analytical Method: BTEX by EPA 8021B Prep Method: Date Prep: 05.01.2020 Seq Number: 3124843 Matrix: Solid LCS Sample Id: 7702532-1-BKS MB Sample Id: 7702532-1-BLK LCSD Sample Id: 7702532-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.108	108	0.113	113	70-130	5	35	mg/kg	05.01.2020 11:40	
Toluene	< 0.00200	0.100	0.0998	100	0.109	109	70-130	9	35	mg/kg	05.01.2020 11:40	
Ethylbenzene	< 0.00200	0.100	0.0942	94	0.101	101	71-129	7	35	mg/kg	05.01.2020 11:40	
m,p-Xylenes	< 0.00400	0.200	0.184	92	0.200	100	70-135	8	35	mg/kg	05.01.2020 11:40	
o-Xylene	< 0.00200	0.100	0.0955	96	0.103	103	71-133	8	35	mg/kg	05.01.2020 11:40	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	113		1	08		107		70	-130	%	05.01.2020 11:40	
4-Bromofluorobenzene	107		9	9		101		70	-130	%	05.01.2020 11:40	

SW5035A Analytical Method: BTEX by EPA 8021B Prep Method:

Seq Number: 3124718 Matrix: Soil Date Prep: 04.30.2020 MS Sample Id: 660346-003 S MSD Sample Id: 660346-003 SD Parent Sample Id: 660346-003

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	F
Benzene	< 0.00202	0.101	0.105	104	0.104	104	70-130	1	35	mg/kg	04.30.2020 19:19	
Toluene	< 0.00202	0.101	0.0947	94	0.0956	96	70-130	1	35	mg/kg	04.30.2020 19:19	
Ethylbenzene	< 0.00202	0.101	0.0865	86	0.0868	87	71-129	0	35	mg/kg	04.30.2020 19:19	
m,p-Xylenes	< 0.00403	0.202	0.166	82	0.168	84	70-135	1	35	mg/kg	04.30.2020 19:19	
o-Xylene	< 0.00202	0.101	0.0836	83	0.0843	84	71-133	1	35	mg/kg	04.30.2020 19:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		107		70-130	%	04.30.2020 19:19
4-Bromofluorobenzene	100		107		70-130	%	04.30.2020 19:19

Prep Method: SW5035A Analytical Method: BTEX by EPA 8021B

Seq Number: 3124843 Matrix: Soil Date Prep: 05.01.2020 MS Sample Id: 660344-001 S MSD Sample Id: 660344-001 SD Parent Sample Id: 660344-001

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.117	117	0.0952	95	70-130	21	35	mg/kg	05.01.2020 17:01
Toluene	< 0.00200	0.100	0.105	105	0.0864	86	70-130	19	35	mg/kg	05.01.2020 17:01
Ethylbenzene	< 0.00200	0.100	0.0986	99	0.0812	81	71-129	19	35	mg/kg	05.01.2020 17:01
m,p-Xylenes	< 0.00401	0.200	0.191	96	0.159	80	70-135	18	35	mg/kg	05.01.2020 17:01
o-Xylene	< 0.00200	0.100	0.0999	100	0.0817	82	71-133	20	35	mg/kg	05.01.2020 17:01

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		111		70-130	%	05.01.2020 17:01
4-Bromofluorobenzene	100		103		70-130	%	05.01.2020 17:01

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)

LCS = Laboratory Control Sample A = Parent Result

C = MS/LCS Result E = MSD/LCSD Result

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

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

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

City, State ZIP:

Carlsbad, NM 3104 E Greene St XTO Energy Kyle Littrell

RRP

□evel IV

Program: UST/PST □PRP □Brownfields

RC

uperfund

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Page

of

Work Order Comments

State of Project: NM

Company Name: Bill to: (if different)

Address:

Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

Work Order No: _

6600344

Email: Impurissey@itenv.com toasey@itenv.com ab	Time Depth D
All Sb As Ba Be B Cd Ca Cr Co CRA Sb As Ba Be Cd Cr Co C Company to Xenco, but not analyzed. These ten batterials and subcomposition of the client if su submitted to Xenco, but not analyzed. These ten company to Xenco, but not analyzed.	ANALYSIS REQUEST ANALYSIS REQ
	Deliverables: EL VALYSIS REQUEST Co Cu Fe Pb Mg Mn Mo Ni u Pb Mn Mo Ni Se Ag Tl U Contractors. It assigns standard terms and co ch losses are due to circumstances beyond t is will be enforced unless previously negotia shed by: (Signature) Rec

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

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

Date/ Time Received: 04.30.2020 05.13.00 PM

Temperature Measuring device used: T-NM-007

Work Order #: 660344

#17 Subcontract of sample(s)?

#18 Water VOC samples have zero headspace?

Comments Sample Receipt Checklist #1 *Temperature of cooler(s)? 1.8 #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? Yes #5 Custody Seals intact on sample bottles? Yes Yes #6*Custody Seals Signed and dated? Yes #7 *Chain of Custody present? #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 Samples received in bulk containers #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

Must be completed for after-hours delivery of samples	prior to placing in the refrigerator
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Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan

Date: 04.30.2020

No N/A

Checklist reviewed by: Jession Warmer

Date: 05.01.2020

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

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

CONDITIONS

Action 11278

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road	5380	11278	C-141
Building #5 Midland, TX79707			

OCD Reviewer	Condition
chensley	None