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 Page 1 of 62

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

Incident ID	NRM2003448627
District RP	
Facility ID	
Application ID	

# **Release Notification**

## **Responsible Party**

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

## **Location of Release Source**

Longitude

-103.998802

Latitude <u>32.153746</u>

 Site Name
 Corral Canyon Expansion
 Site Type
 Well Location

 Date Release Discovered
 11/25/2019
 API# (if applicable) 30-015-42928 (Corral Canyon Fed Com 16H)

(NAD 83 in decimal degrees to 5 decimal places)

Unit Letter	Section	Township	Range	County	
Р	5	25S	29E	EDDY	

Surface Owner: State Federal Tribal Private (Name:

## Nature and Volume of Release

🛛 Crude Oil	Volume Released (bbls) 0.06	Volume Recovered (bbls) 0.0
Produced Water	Volume Released (bbls) 0.0	Volume Recovered (bbls) 0.0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
out on its own when it l	id built up in a low place in the line and was then releas nit the ground. Remediation of de minimis staining aro n to an approved disposal facility.	sed thru the flare stack starting a small fire. The fire wen und the flare was completed by hand digging and

Particly D     Application ID     Tesses     Tesse     Tesses     Tesses     Tesses     Tesses     Tesse     Tesses		020 2:36:08 PM te of New Mexico		Incident ID	NRM2003440021	
Application ID         Was this a major         Prelease addined by         JS.29.7(A) NMAC?         YES – An unauthorized release of volume that results in a fire or is the result of a fire.         YES – No         If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?         YES, by Amy Ruth : Mae Bacher; Rob Hamie; Victoria Venegas; 'Griswoid, Jam, EMNRD'; Imm_nm_do_spill@bim.gor; Cisha         Margan : on 11723/2019 at 12:19 PM by email.         Initial Response         The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result to injury         The source of the release has been stopped.         The impacted area has been secured to protect human health and the environment.         Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.         If all the actions described above have got been undertaken, explain why:         There were no fluids released to be contained via the use of berms or dikes, absorbent pads, or other containment devices.         There were no fluids released to be removed and managed appropriately.         If all the actions described above have got been undertaken, explain why:         There were no fluids released to be removed and managed.         Per 19.15.29.28 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediatina has	e 2	Oil Conservation Divisi	on	District RP		
Was this a major       If YES, for what reason(s) does the responsible party consider this a major release?         YeS _ No       YES - An unauthorized release of volume that results in a fire or is the result of a fire.         YeS _ No       YES - An unauthorized release of volume that results in a fire or is the result of a fire.         YeS _ No       If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?         YES, by Amy Ruth : Mise Patcher; kot hamiet; Vicoria Venegas; 'Griswidi, Jim, EMNRO'; bim_nm_cfo_spil@bim.gov; Cisha         Wargan : on 11/25/2019 at 12:19 PM by email.         Initial Response         The responsible party must undertable the following actions immediately unless they could create a safety hazard that would result in injury         Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.         All free liquids and recoverable materials have been removed and managed appropriately.         If all the actions described above have not been undertaken, explain why:         There were no fluids released to be comtained via the use of berms or dikes, absorbent pads, or other containment devices.         There were no fluids released to be removed and managed.         Prive were no fluids released to be contained via the use of berms or dikes, absorbent pads, or other containment devices.         There were no fluids released to be contained via the use of berms or dikes, absorbent pads, or other containment devices.				Facility ID		
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OCD Only

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

Incident ID	NRM2003440021
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>50-100</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗋 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🔀 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

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

Characterization Report Checklist: Each of the following items must be included in the report.
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> <li>Topographic/Aerial maps</li> <li>Laboratory data including chain of custody</li> </ul>

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.

<b>Received by OCD: 11/20/2020 2:36</b> Form C-141 Page 4	Oil Conservation Division		Incident ID District RP Facility ID Application ID	Page 4 of 62 NRM2003448627
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Printed Name:Ky	<u>yle Littrell</u> Tit	e: <u>SH&amp;E</u>	Supervisor	
Signature:	Data Data Data Data Data Data Data Data	te: <u>11/09/20</u>	20	
email:Kyle Littrell@xto	energy.com	Telephone:	(432)-221-7331	
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Page 6

Oil Conservation Division

	Page 5 of	<b>62</b>
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.

<b><u>Closure Report Attachment Checklist</u></b> : Each of the following	items must be included in the closure report.						
A scaled site and sampling diagram as described in 19.15.29.11 NMAC							
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)							
Laboratory analyses of final sampling (Note: appropriate OD	C 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 certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regul restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the O	ations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete.						
Printed Name:Kyle Littrell Signature:	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						
	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 for regulations.						
Closure Approved by:	Date: 02/23/2021						
Printed Name: Chad Hensley	Title:Environmental Specialist Advanced						

#### LT Environmental, Inc.

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

A proud member of WSP

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



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



District II Page 3

surface. Soil was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> 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- 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<sup>®</sup> chloride QuanTab<sup>®</sup> 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.

Kaei Jannings

Ushley L. ager

Kalei Jennings Project Environmental Scientist

Ashley L. Ager, P.G. Senior Geologist

cc: Kyle Littrell, XTO United States Bureau of Land Management – New Mexico Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Appendices:

- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Photographic Logs
- Attachment 2 Lithologic/Soil Sampling Logs
- Attachment 3 Laboratory Analytical Reports

# FIGURES





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# TABLES



## 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	e 1 Closure Cri	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





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#### PHOTOGRAPHIC LOG



Photograph 1: View of preliminary samples SS02 and SS03 facing southeast.



**Photograph 2:** View of preliminary sample SS01 facing northeast.



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



SP	mber		SU8 West Carlsbad, Ne	Stevens : w Mexico	, Inc. Street 88220 Remedia			Site Name: The RP or Incident N	Corral C	Date: 4-30-20
	LITHO	DLOG	IC / SOIL	SAMPL	ING LO	G	2	LTE Job Number	01790	Method: Z
53746	-103	.99	6802			I I PT	77	Tote Diameter,		Method: $F_{4Centration}$ Total Depth: 1'-2'
x'	_				10 CC	-114	1	w	A	1-2
(ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)				Lithology	/Remarks
	100			1	0		1			
319.2	0.0	N	5501A	N -	1		CITCE	Timer	Snd	ten Icuhitz
84.8	0.4	N	SSOIB	2	2		CHEE SP-SC	tan,	Biown	
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				-	4					
				-	F					
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			-	-	10					
					12					
	(bbu)	(mpa) (mpa) (mp) (mp)	Calor (ppm) (ppm)	Chionade (ppm) Staining Sample # 5 Sample # 5 Staining	$\frac{53744}{5} - \frac{103}{998802}$ Field Scree Chloride, P Field Scree Chloride, P Field Scree Chloride, P Field Scree Chloride, P $\frac{10}{9}$ $\frac$	$\begin{array}{c c} 5374.6, -103.999.9802 \\ \hline Field Screening: Chloride, PID (1) \\ \hline \\ $	$\begin{array}{c c} \hline S374-C_{2}-IOS_{2} & \overline{979} \otimes SO2 \\ \hline Field Screening: \\ \hline Chlonde, PID & \underline{CLIP2} \\ \hline \\ $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{53746}{6} - 103.999 g g 2 $ Pield Screening Chlorida, PD (LIPI) Not Diameter $\frac{53746}{100} - 103.999 g g 2 $ Libology $\frac{53746}{100} - 103.999 g g 2 $ Libology $\frac{53746}{100} - 100 $ Libolo

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	proud m FWSP		Cor	Carlsbad, N mpliance · E	ngineering	- Remedia	ation	Site Name: <u>The Correl Convon</u> <u>Expension</u> RP or Incident Number: LTE Job Number: <u>012920053</u> Locard Prof. <u>Method</u>
Lat/Loi 32. Comm	5374		PLOGIC / SOIL SAMPLING LOG Field Screening: Chloride, PID CL/PZP					Hole Diameter: P WIA Hole Diameter: MIA Method: Excuses for Total Depth: 1'-2'
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)		Lithology/Remarks
P	252	0-2	N	55024	1 1 1	-		CHEE Trace Sund Earnfuhite
9	<del>1841-8</del> 2124	0.2	N	ssall	2'	2		CHEE Ean Biown SP-SC
/	/					4		
						5		
						7		
						8		
						10		
						11		

0	fWSP	LITU		mpliance · El GIC / SOII			1	-	RP or Incident Number	12920	
Lat/Lo		-			Field Scree	ening:		-	Logged By: 7 Front J Hole Diameter:	19504	Method: Francestor Total Depth:
<u>32.</u> Comm	15374. ients:	4,-10	3.992	402	Chloride, F	PID CL	193	V	NIA		1-2
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	0	I	.ithology/R	emarks
	120	in a second	1		1	0					
P	×124	0.1	N	55034	1` -	1	a. A	CIFCE	Trace of	Sind	Jen lowhite
3	2124	0.0	N	5503B	2`	2		CHCE SP-SC	Ean 1360	m	
					4	3		1			
/					+	4					
	/				1	Contractor	1				
					+	5					
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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,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

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# Sample Cross Reference 659884

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



## **CASE NARRATIVE**

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

 Project ID:
 012920053

 Work Order Number(s):
 659884

 Report Date:
 04.28.2020

 Date Received:
 04.27.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



**Project Id:** 012920053

Contact:

Kalei Jennings

#### **Project Location:**

Certificate of Analysis Summary 659884

LT Environmental, Inc., Arvada, CO

Project Name: Corral Canyon Expansion

 Date Received in Lab:
 Mon 04.27.2020 15:42

 Report Date:
 04.28.2020 12:02

Project Manager: Jessica Kramer

	Lab Id:	659884-0	001	659884-0	02	659884-0	03		
Analysis Requested	Field Id:	SS01		SS02		SS03			
Analysis Requested	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		
Toluene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199		
Ethylbenzene		< 0.00201	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	0.00201	< 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 Kramer Project Manager

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# **Certificate of Analytical Results 659884**

## LT Environmental, Inc., Arvada, CO

Corral Canyon Expansion

Sample Id:	SS01		Matrix:		Soil		Date Received	1:04.27	.2020 15:4	42
Lab Sample Io	d: 659884-001		Date Col	lected	: 04.27.2020 12:08		Sample Depth	:0.5 ft		
Analytical Me	ethod: Chloride by EPA	300					Prep Method:	E3001	Р	
Tech:	MAB						% Moisture:			
Analyst:	MAB		Date Prep	p:	04.27.2020 17:04		Basis:	Wet W	Veight	
Seq Number:	3124306									
Parameter		Cas Number	Result	RL		Units	Analysis Da	ate	Flag	Dil
Chloride		16887-00-6	77.7	5	0.2	mg/kg	04.27.2020 17	7:32		5

Analytical Method: TPH by SW80	15 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 04.	27.2020 17:00		Basis: W	et 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	Ļ	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	ļ	1
Total TPH	PHC635	94.8	50.0		mg/kg	04.27.2020 19:04	Ļ	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Dat	e Flag	
1-Chlorooctane		111-85-3	106	%	70-135	04.27.2020 19:	04	
o-Terphenyl		84-15-1	113	%	70-135	04.27.2020 19:	04	



# **Certificate of Analytical Results 659884**

# LT Environmental, Inc., Arvada, CO

Corral Canyon Expansion

Sample Id:SS01Lab Sample Id:659884-001	Matrix: Soil Date Collected: 04.27.2020 12:08	Date Received:04.27.2020 15:42 Sample Depth: 0.5 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB		Prep Method: SW5035A % Moisture:
Analyst:MABSeq Number:3124302	Date Prep: 04.27.2020 17:40	Basis: Wet Weight

Parameter	Cas Numbe	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		



Seq Number: 3124321

# **Certificate of Analytical Results 659884**

## LT Environmental, Inc., Arvada, CO

Corral Canyon Expansion

Sample Id: Lab Sample	<b>SS02</b> Id: 659884-002		Matrix: Date Collec	Soil cted: 04.27.2020 13:00		Date Received Sample Depth	1:04.27.2020 15 : 0.5 ft	:42
Analytical M Tech: Analyst: Seq Number	Iethod: Chloride by EPA MAB MAB : 3124306	. 300	Date Prep:	04.27.2020 17:04		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil
Chloride		16887-00-6	35.6	9.94	mg/kg	04.27.2020 17	7:37	1
Analytical M Tech:	fethod: TPH by SW8015 DTH	5 Mod				Prep Method: % Moisture:	SW8015P	

Parameter	Cas Number	r 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		
o-Terphenyl		84-15-1	111	%	70-135	04.27.2020 19:24		



# **Certificate of Analytical Results 659884**

## LT Environmental, Inc., Arvada, CO

Corral Canyon Expansion

Sample Id:         SS02           Lab Sample Id:         659884-002	Matrix: Soil Date Collected: 04.27.202		)4.27.2020 15:42 ).5 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB		Prep Method: 5 % Moisture:	SW5035A
Analyst: MAB Seq Number: 3124302	Date Prep: 04.27.202	) 17:40 Basis:	Wet Weight

Parameter	Cas Numbe	r Result	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		



# **Certificate of Analytical Results 659884**

## LT Environmental, Inc., Arvada, CO

Corral Canyon Expansion

Sample Id: Lab Sample Id	<b>SS03</b> d: 659884-003		Matrix: Date Collec	Soil ted: 04.27.2020 13:20		Date Received Sample Depth	1:04.27.2020 15 : 0.5 ft	5:42
Analytical Me Tech: Analyst: Seq Number:	ethod: Chloride by EPA MAB MAB 3124306	300	Date Prep:	04.27.2020 17:04		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil
Chloride		16887-00-6	84.9	50.1	mg/kg	04.27.2020 17	7:43	5
Analytical Me	ethod: TPH by SW8015	Mod				Prep Method:	SW8015P	
Tech:	DTH					% Moisture:		
Tech:	DIII							
Analyst:	DTH		Date Prep:	04.27.2020 17:00		Basis:	Wet Weight	

Parameter	Cas Numbe	r 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	
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		



# **Certificate of Analytical Results 659884**

## LT Environmental, Inc., Arvada, CO

Corral Canyon Expansion

Sample Id:SS03Lab Sample Id:659884-003	Matrix: Soil Date Collected: 04.27.2020 1	Date Received:04.27.2020 15:42           3:20         Sample Depth: 0.5 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB		Prep Method: SW5035A % Moisture:
Analyst: MAB Seq Number: 3124302	Date Prep: 04.27.2020 1	7:40 Basis: Wet Weight

Parameter	Cas Numbe	r Result	Result 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 De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
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/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

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



QC Summary 659884

#### LT Environmental, Inc.

Corral Canyon Expansion

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>Chloride by EPA</b> 3124306 7702149-1-BLK	300		Matrix: nple Id:	Solid 7702149-1	I-BKS			rep Metho Date Pr D Sample	ep: 04.2	0P 27.2020 2149-1-BSD	
Parameter	MB	-	LCS Bernelt		LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride	<b>Resul</b> <10.0		Result 250	<b>%Rec</b> 100	Result 250	<b>%Rec</b> 100	90-110	0	Limit 20	mg/kg	<b>Date</b> 04.27.2020 16:26	
Analytical Method: Seq Number:	<b>Chloride by EPA</b> 3124306	300		Matrix:	Soil			P	rep Methe		0P 27.2020	
Parent Sample Id:	659876-001				659876-00	01 S		MS	Date Pr D Sample		876-001 SD	
Parameter	Parent Result	-	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	123	201	1410	90	1420	95	90-110	1	20	mg/kg	04.27.2020 16:43	
Analytical Method: Seq Number:	<b>Chloride by EPA</b> 3124306	300		Matrix:	Soil			P	rep Metho Date Pr		0P 27.2020	
Parent Sample Id:	659890-002				659890-00	02 S		MS		•	890-002 SD	
Parameter	Parent Result	-	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	33	) 199	548	110	548	110	90-110	0	20	mg/kg	04.27.2020 17:59	
Analytical Method: Seq Number:	-	Mod			a 11 1			P	rep Metho Date Pr		8015P 27.2020	
	3124321			Matrix:	Solid					-r		
MB Sample Id:	3124321 7702167-1-BLK				Solid 7702167-1	I-BKS		LCS		-	2167-1-BSD	
MB Sample Id: <b>Parameter</b>		-				l-BKS LCSD %Rec	Limits	LCS %RPD		-		Flag
Parameter Gasoline Range Hydrocarb	7702167-1-BLK MB Result	<b>Amount</b> ) 1000	LCS Sar LCS Result 858	nple Id: LCS %Rec 86	7702167-2 LCSD Result 967	<b>LCSD</b> %Rec 97	70-135	<b>%RPD</b>	D Sample RPD Limit 35	units mg/kg	2167-1-BSD Analysis Date 04.27.2020 13:00	Flag
Parameter	7702167-1-BLK MB Result	<b>Amount</b> ) 1000	LCS Sar LCS Result	nple Id: LCS %Rec	7702167- LCSD Result	LCSD %Rec		%RPD	D Sample RPD Limit	e Id: 770 Units	2167-1-BSD Analysis Date	Flag
Parameter Gasoline Range Hydrocarb	7702167-1-BLK MB Result	<ul> <li>Amount</li> <li>1000</li> <li>1000</li> <li>MB</li> </ul>	LCS Sar LCS Result 858 958 L	nple Id: LCS %Rec 86	7702167-2 LCSD Result 967	<b>LCSD</b> %Rec 97	70-135 70-135	%RPD 12 13 D Li	D Sample RPD Limit 35	units mg/kg	2167-1-BSD Analysis Date 04.27.2020 13:00	Flag
Parameter Gasoline Range Hydrocarb Diesel Range Organics o Surrogate 1-Chlorooctane	7702167-1-BLK ME Result ons (GRO) <50. (DRO) <50. MB %Re 121	<ul> <li>Amount</li> <li>1000</li> <li>1000</li> <li>MB</li> <li>Flag</li> </ul>	LCS Sar LCS Result 858 958 L %	nple Id: LCS %Rec 86 96 CS Rec 27	7702167-2 <b>LCSD</b> <b>Result</b> 967 1090 <b>LCS</b>	LCSD %Rec 97 109 LCSI %Re 132	70-135 70-135 D LCS c Fla	%RPD 12 13 D Li g 70	D Sample RPD Limit 35 35 imits -135	units Units mg/kg mg/kg	2167-1-BSD Analysis Date 04.27.2020 13:00 04.27.2020 13:00 Analysis Date 04.27.2020 13:00	Flag
Parameter Gasoline Range Hydrocarb Diesel Range Organics Surrogate	7702167-1-BLK ME Result ons (GRO) <50. (DRO) <50. MB %Re	<ul> <li>Amount</li> <li>1000</li> <li>1000</li> <li>MB</li> <li>Flag</li> </ul>	LCS Sar LCS Result 858 958 L %	nple Id: LCS %Rec 86 96 CS Rec	7702167-2 <b>LCSD</b> <b>Result</b> 967 1090 <b>LCS</b>	LCSD %Rec 97 109 LCSI %Re	70-135 70-135 D LCS c Fla	%RPD 12 13 D Li g 70	D Sample RPD Limit 35 35 imits	e Id: 770 Units mg/kg mg/kg Units	2167-1-BSD Analysis Date 04.27.2020 13:00 04.27.2020 13:00 Analysis Date	Flag
Parameter Gasoline Range Hydrocarb Diesel Range Organics of Surrogate 1-Chlorooctane o-Terphenyl	7702167-1-BLK MB Result ons (GRO) <50. (DRO) <50. MB %Ra 121 131	<ul> <li>Amount</li> <li>1000</li> <li>1000</li> <li>MB</li> <li>Flag</li> </ul>	LCS Sar LCS Result 858 958 L %	nple Id: LCS %Rec 86 96 CS Rec 27	7702167-2 <b>LCSD</b> <b>Result</b> 967 1090 <b>LCS</b>	LCSD %Rec 97 109 LCSI %Re 132	70-135 70-135 D LCS c Fla	%RPD 12 13 D Li g 70	D Sample RPD Limit 35 35 imits -135	e Id: 770 Units mg/kg mg/kg Units % %	2167-1-BSD Analysis Date 04.27.2020 13:00 04.27.2020 13:00 Analysis Date 04.27.2020 13:00 04.27.2020 13:00	Flag
Parameter Gasoline Range Hydrocarb Diesel Range Organics of Surrogate 1-Chlorooctane o-Terphenyl Analytical Method:	7702167-1-BLK MB Result ons (GRO) <50. (DRO) <50. MB %Re 121 131 TPH by SW8015	<ul> <li>Amount</li> <li>1000</li> <li>1000</li> <li>MB</li> <li>Flag</li> </ul>	LCS Sar LCS Result 858 958 L % 1 1	nple Id: LCS %Rec 86 96 CS Rec 27 27	7702167- LCSD Result 967 1090 LCS Flag	LCSD %Rec 97 109 LCSI %Re 132	70-135 70-135 D LCS c Fla	%RPD 12 13 D Li g 70 70 70	D Sample <b>RPD</b> Limit 35 35 imits -135 -rep Metho	e Id: 770 Units mg/kg mg/kg Units % %	2167-1-BSD Analysis Date 04.27.2020 13:00 04.27.2020 13:00 Analysis Date 04.27.2020 13:00 04.27.2020 13:00 04.27.2020 13:00	Flag
Parameter Gasoline Range Hydrocarb Diesel Range Organics of Surrogate 1-Chlorooctane o-Terphenyl	7702167-1-BLK MB Result ons (GRO) <50. (DRO) <50. MB %Ra 121 131	<ul> <li>Amount</li> <li>1000</li> <li>1000</li> <li>MB</li> <li>Flag</li> </ul>	LCS Sar LCS Result 858 958 L % 1 1	nple Id: LCS %Rec 86 96 CS Rec 27 27 Matrix:	7702167- LCSD Result 967 1090 LCS Flag	LCSD %Rec 97 109 LCSI %Re 132 122	70-135 70-135 D LCS c Fla	%RPD 12 13 D Li g 70 70 70	D Sample RPD Limit 35 35 imits -135 -135	e Id: 770 Units mg/kg mg/kg Units % %	2167-1-BSD Analysis Date 04.27.2020 13:00 04.27.2020 13:00 Analysis Date 04.27.2020 13:00 04.27.2020 13:00	Flag
Parameter Gasoline Range Hydrocarb Diesel Range Organics of Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: Seq Number:	7702167-1-BLK MB Result ons (GRO) <50. (DRO) <50. MB %Re 121 131 TPH by SW8015	<ul> <li>Amount</li> <li>1000</li> <li>1000</li> <li>MB</li> <li>Flag</li> </ul>	LCS Sar LCS Result 858 958 L % 1 1 1 MB Sar MB	nple Id: LCS %Rec 86 96 CS Rec 27 27 Matrix:	7702167- LCSD Result 967 1090 LCS Flag	LCSD %Rec 97 109 LCSI %Re 132 122	70-135 70-135 D LCS c Fla	%RPD 12 13 D Li g 70 70 70	D Sample <b>RPD</b> Limit 35 35 imits -135 -rep Metho	e Id: 770 Units mg/kg mg/kg Units % %	2167-1-BSD Analysis Date 04.27.2020 13:00 04.27.2020 13:00 Analysis Date 04.27.2020 13:00 04.27.2020 13:00 04.27.2020 13:00 8015P 27.2020 Analysis	Flag Flag
Parameter Gasoline Range Hydrocarb Diesel Range Organics of Surrogate 1-Chlorooctane o-Terphenyl Analytical Method:	7702167-1-BLK ME Result ons (GRO) <50.( (DRO) <50. MB %R 121 131 TPH by SW8015 3124321	<ul> <li>Amount</li> <li>1000</li> <li>1000</li> <li>MB</li> <li>Flag</li> </ul>	LCS Sar LCS Result 858 958 L % 1 1 1	nple Id: LCS %Rec 86 96 CS Rec 27 27 Matrix:	7702167- LCSD Result 967 1090 LCS Flag	LCSD %Rec 97 109 LCSI %Re 132 122	70-135 70-135 D LCS c Fla	%RPD 12 13 D Li g 70 70 70	D Sample <b>RPD</b> Limit 35 35 imits -135 -rep Metho	e Id: 770 Units mg/kg mg/kg Units % % od: SW ep: 04.2	2167-1-BSD Analysis Date 04.27.2020 13:00 04.27.2020 13:00 Analysis Date 04.27.2020 13:00 04.27.2020 13:00 04.27.2020 13:00 8015P 27.2020	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

.

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## QC Summary 659884

Prep Method: SW8015P

### LT Environmental, Inc.

Corral Canyon Expansion

Seq Number: Parent Sample Id:	3124321 659819-00	1			Matrix: nple Id:						Date Prep:         04.27.2020           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	Flag
Gasoline Range Hydrocarb	oons (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					IS Rec	MS Flag	MSI %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	18		114	Ļ	70	-135	%	04.27.2020 14:01	
o-Terphenyl				1	15		114	Ļ	70	-135	%	04.27.2020 14:01	

Analytical Method:	BTEX by EPA 8021	B						Pi	rep Metho	od: SW	5035A	
Seq Number:	3124302		]	Matrix:	Solid				Date Pr	ep: 04.2	27.2020	
MB Sample Id:	7702139-1-BLK		LCS San	nple Id:	7702139-	I-BKS		LCS	D Sample	e Id: 770	2139-1-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	0.114	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		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	114		1	08		111		70	-130	%	04.27.2020 22:02	
4-Bromofluorobenzene	106		9	96		97		70	-130	%	04.27.2020 22:02	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3124302 659820-011	B		Matrix: nple Id:	Soil 659820-01	1 S			rep Metho Date Pr D Sample	ep: 04.2	5035A 27.2020 820-011 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				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	

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

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec
Work O         Program: UST/PST       PRP         State of Project:       Project:         Program: UST/PST       Project:         VSIS REQUEST       Project:         Image: standard terms and conditions       Image: standard terms and conditions         Image: standard terms and conditions       Received by: (Signard terms)	XXE	ENCO	Houstor Midlar Hobbs,NM (575-392	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX ( Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800)	Dallas,T )) EL Pas (480-355	X (214) 9 ;o,TX (91; -0900) A	Dallas,TX (214) 902-0300 San Antonio, EL Paso,TX (915)585-3443 Lubbock,T (480-355-0900) Atlanta,GA (770-449-880	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)	3-620-2000) www.xenco.com F
Company Name     Finitian office     Company Name     X10 E Grean Stead     Proget       Address:     3000 North A Stead     Address:     3104 E Grean Stead     State of Project       City, State ZIP:     Midland, IX, Pernital office     City, State ZIP:     Catabast, NM 88220     State of Project       Project Name:     Corral Canyon Expansion     Turn Avound     Number:     City, State ZIP:     Number:       Project Name:     Corral Canyon Expansion     Turn Avound     Number:     Number:     Number:       Transpective Name:     Armando Trigio     Turn Wint (city, Num)     Routine X     Number:     <		lenninge	Hopps,NM (5/5-392	Bill to: (if different)	(400-300 Kyle	Littrell		0-449-0000) Tampa, E (0	
Autorest     3104 E Clauno Steel     Address     2104 E Clauno Steel     State of Project Name       City, State Z.P.:     Midland, TX 79705     Enail articlo@alter.vom     Earlbad, NM 88220     Reported Name     Reported Name     Reported Name     Reported Name     Reported Name     Reported Name     NAN YSIS REPUEST     Reported Name     Immonity Level II     Enail articlo@alter.vom     February State of Project Name     NAN YSIS REPUEST     Reporting Level II     Enail articlo@alter.vom     February State of Project Name     NAN YSIS REPUEST     February State     Febr		ntal, Inc.,	nian office	Company Name:	XTO	Energy			
Chy, State ZIP:     Midland, TX 79705     Chy, State ZIP:     Caribad, NM 88220     Perported Nume       Propert Nume     Correl Caryon Expansion     Turn Avourd     Turn Avourd     Exponention     Exp				Address:	3104	‡ E Gree	n Street		
Priva:         432.236.3840         Email attralo@lenv.com         Number:         Delvariables:         Delvariable:         Delvariable:         Delvariables:         Delvariables:         Delvariables: </td <td></td> <td>and, TX 79705</td> <td></td> <td>City, State ZIP:</td> <td>Carls</td> <td>sbad, NN</td> <td>1 88220</td> <td></td> <td>evel III</td>		and, TX 79705		City, State ZIP:	Carls	sbad, NN	1 88220		evel III
Project Name:     Corral Canyon Expansion     Turn Around Routine X       Project Name:     Intrando Trejo     Rush: Rush:       Project Name:     Armando Trejo     Due Date:       Sampler's Name:     Image Summer (C):     L_C       Temperature (C):     L_C     Thermometer ID Reconcerd Inter       Reconcerd Inter     Correction Factor:		236.3849	Email	: atrejo@ltenv.co					Deliverables: EDD ADaPT
Project Number:     0129200053     Routine X Rush:       Sampler's Name:     Immando Trejo     Rush:       Sampler's Name:     Immando Trejo     Due Date:       Sampler's Name:     Immando Trejo     Due Date:       Sampler's Name:     Immando Trejo     Due Date:       Routine fC):     Immando Trejo     Treperature (C):       Conter Costody Seals:     Yes, (N)     NA       Sample fuentification     Martix     Sampled       SSO2     S     427/2020     1208       SSO3     S     427/2020     1208       SSO3     S     427/2020     1300     5'       SSO3     S     427/2020     1320     5'     1     X     X       SSO3     S     427/2020     1320     5'     1     X     X     X       Cricle Method(S) and Metal(S) to be analyzed     Image: Signature of the cost of standard of samples or standard neurophysical st	Name:	al Canyon Expansion	1	urn Around				LYSIS	
P.O. Number:     Imando Trejo     Rush:       Sampler's Name:     Armando Trejo     Due Date:       Sampler's Name:     Imando Trejo     Thermometer ID       Received Intact:     Imano     Imano       Cooler Custody Seals:     Yes     Nu       Sample Identification     Matrix     Sampled       Sample Custody Seals:     Yes     Nu       Scool     S     4/27/2020       Scool     S     1     X       Scool     S     4/27/2020     1320     5       Scool     S     4/27/2020     1320     5       Scool     S     1     X     X     X       Cicle Method(s) and Matal(s) to be analyzed     Image: Scool     Image: Scool     Image: Scool       Scool     Scooregeneration     Scool     Image: Scoor	'n	20053	Rout	1.2.1					
Sample's Name:     Armando Trejo       Symple's Name:     Armando Trejo       Symple ReCEIPT     Temp Blank:     (es /No       Temperature (°C):     L-C     Thermometer ID       Received Infact:     (es /No     NA     Connection Factor       Cooler Custody Seals:     Ves (N)     NA     Total Containers:       Sample Custody Seals:     Ves (N)     NA     Connection Factor       Sample dentification     Matrix     Sampled     Sampled       Sample Custody Seals:     Ves (N)     NA     Connection Factor       Sample Custody Seals:     Ves (N)     NA     Connection Factor       Sample Custody Seals:     Ves (N)     NA     Total Containers:			Rush	R			_		
SAMPLE RECEIPT     Temp Blank:     Yes, No     Wet Ice:     Yes, No       Temperature (*0):     1-60     Thermometer ID       Received intat:     (*es, No     Torrection Factor       Conter Custody Seals:     Yes, No     Torrection Factor       Sample Custody Seals:     Yes, No     Torrection Factor       Sample Custody Seals:     Yes, No     Torrection Factor       Sample Custody Seals:     Yes, No     Torrection Factor       SS01     S     427/2020       SS02     S     427/2020       SS03     S     427/2020       Total 200.7 (6010     200.8 (6020:     Co Cu Fe Ds Mg Mn No Ni K Se Ag SiO2 Na Sr Ti Sn U Zn       Circle Method(s) and Metal(s) to be analyzed     I     I       Sinditu:		ando Trejo	Due	Date:			_		
Temperature (*C):       (-()       Thermoneter ID         Received Intact:       (*es) No       To All Containers         Cooler Custody Seals:       Yes       (N)       NA         Sample Identification       Matrix       Sampled       Sampled         Sample Custody Seals:       Yes       (N)       NA         Statistics       Sample Custody Seals:       Yes       (N)         Statistics       Sample Custody Seals:       Sample Custody Seals:       Sample Custody Seals:         Statistics       Sample Custody Seals:       Sample Custody Seals:       Number of Containers         Statistics       Sample Custody Seals:       Sample Custody Seals:       Sample Custody Seals:       Sample Custody Seals:         Statistics       Sample Custody Seals:       Sample Custody Seals:       Sample Custody Seals:       Sample Custody Seals: <td>SAMPLE RECEIPT</td> <td></td> <td></td> <td>(Yes No</td> <td>5</td> <td></td> <td>_</td> <td></td> <td></td>	SAMPLE RECEIPT			(Yes No	5		_		
Received Intact:       (ts)       No       (t-1)	emperature (°C):	1.6	Thermometer		mer	1	0)		
Conder Custody Seals:       Yes       With       Custody reads:       Yes       With       Total Containers:       Date       Time         Sample Custody Seals:       Yes       Marrix       Sampled       Sampled <t< td=""><td>Received Intact:</td><td>es N</td><td>1-JUN</td><td>1001</td><td></td><td>8021)</td><td>300.</td><td></td><td></td></t<>	Received Intact:	es N	1-JUN	1001		8021)	300.		
Sample Identification     Matrix     Date Sampled     Time Sampled     Depth     Eth     Eth       SS01     S     4/27/2020     1208     5'     1     X     X     X       SS02     S     4/27/2020     1300     5'     1     X     X     X       SS03     S     4/27/2020     1320     5'     1     X     X     X     X       SS03     S     4/27/2020     1320     5'     1     X     X     X     X     X       SS03     S     4/27/2020     1320     5'     1     X	ample Custody Seals:	No	Total Containers:	си		EPA 0	e (EP		
SS01       S       4/27/2020       1208       .5       1       X       X       X       I       I       X       X       I       I       X       X       I       I       X       X       I       I       X       X       I       I       X       X       X       I       I       X       X       X       I       I       X       X       X       I       I       X       X       X       X       I       I       X       X       X       I       I       X       X       X       I       I       I       X       X       X       I       I       I       X       X       X       I       I       I       X       X       X       I       I       I       I       I       I       I       X       X       I <thi< th="">       I       I</thi<>	Sample Identificat	Matrix				BTEX (	Chlorid		
SS02       S       4/27/2020       1300       .5'       1       X       X       I       I       X       I       I       I       X       X       I       I       X       X       I       I       X       X       I       I       X       X       I       I       X       X       I       I       X       X       I       I       I       I       I       I       I       I       X       X       I	SS01					×	×		
SS03       S       4/27/2020       1320       5'       1       X       X       X         Image: Signature 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 by otxence. It and a charge of \$5 for each sample       Image: Signature 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 by otxence. It applied to each project and a charge of \$5 for each sample         Melinquished by: (Signature)       d by: (Signature)       i       i       i       i	SS02					×	×		
Total 200.7 / 6010       200.8 / 6020:       Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn         Circle Method(s) and Metal(s) to be analyzed       Image: 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 of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances be of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample in the project and the project and a charge of \$5 for each samp	SS03				-	×	×		
Total 200.7 / 6010       200.8 / 6020:       Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn         Circle Method(s) and Metal(s) to be analyzed									
Total 200.7 / 6010       200.8 / 6020:       Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn         Circle Method(s) and Metal(s) to be analyzed       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 of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances be of service. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample       Date/Time       by: (Signature)         Relinquished by: (Signature)       d by: (Signature)       4       4       4       4									
Total 200.7 / 6010       200.8 / 6020:       Co Cu He Pb Mg Min Mo Ni K Se Ag SiO2 Na Si H SH OV ZH         Circle Method(s) and Metal(s) to be analyzed         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 of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances be of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample of 26 for each sample defined by: (Signature)       by: (Signature)       4         Relinquished by: (Signature)       d by: (Signature)       4       4       4       6									
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 of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances be of Xenco. A minimum charge of \$75,00 will be applied to each project and a charge of \$5 for each sample       Date/Time       I by: (Signature)         Relinquished by: (Signature)       d by: (Signature)       /       4	Total 200.7 / 6010 Circle Method(s) and	d Metal(s) to be analyz	d Cure Poing n	NI NI OWI NI N	N BU	OZ Na		<	
Relinquished by: (Signature) d by: (Signature) $'$ $'$ $'$	votice: Signature of this docume	ent and relinquishment of sam only for the cost of samples an cor5 on will be applied to each	les constitutes a valid p shall not assume any r shall and a charge of t	ourchase order from c responsibility for any   \$5 for each sample	ient composes or e	any to Xer expenses i	co, its affiliate	s and subcontractors. It ass client if such losses are due Signature)	ins standard terms and conditions o circumstances beyond the control
	Relinquished by: (Sig	nature) d by: (Signat	ure)		In I ful	1240	5 A N		Received by: (Sign

Final 1.000



**Project Id:** 012920053

Contact:

Tacoma Morrissey

#### **Project Location:**

Certificate of Analysis Summary 660344

LT Environmental, Inc., Arvada, CO

#### **Project Name: The Corral Canyon Expansion**

 Date Received in Lab:
 Thu 04.30.2020 17:13

 Report Date:
 05.06.2020 07:48

Project Manager: Jessica Kramer

	Lab Id:	660344-0	001	660344-0	02	660344-0	003	660344-0	004	660344-0	05	660344-0	06
Analysis Requested	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									
	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										
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	0.00200	< 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										
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										
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 Kramer Project Manager

Page 1 of 24



# 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,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

Page 3 of 24



## 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



## **CASE NARRATIVE**

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

 Project ID:
 012920053

 Work Order Number(s):
 660344

 Report Date:
 05.06.2020

 Date Received:
 04.30.2020

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



## **Certificate of Analytical Results 660344**

### LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: <b>PH01</b> Lab Sample Id: 660344-001		Matrix: Date Collec	Soil cted: 04.30.2020 09:23		Date Received Sample Depth		20 17:13
Analytical Method: Chloride by EPA Tech: MAB	. 300				Prep Method: % Moisture:	E300P	
Analyst: MAB		Date Prep:	04.30.2020 17:48		Basis:	Wet Weig	ght
Seq Number: 3124742							
Parameter	Cas Number	Result	RL	Units	Analysis Da	ate Fla	ng Dil
Chloride	16887-00-6	175	10.0	mg/kg	04.30.2020 22	2:48	1

Analytical Method: TPH by SW802	15 Mod					Prep Method: S	SW8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date Pr	rep: 04	.30.2020 17:30		Basis: V	Wet Weight	
Seq Number: 3124745								
Parameter	Cas Number	Result	RL		Units	Analysis Date	e Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	04.30.2020 19:1	8 U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	04.30.2020 19:1	8 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	04.30.2020 19:1	8 U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	04.30.2020 19:1	8 U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	04.30.2020 19:1	8 U	1
Surrogate		Cas Number	% Recover	y Units	Limit	s Analysis Da	ate Flag	

99

105

111-85-3

84-15-1

1-Chlorooctane

o-Terphenyl

.

04.30.2020 19:18

04.30.2020 19:18

70-135

70-135

%

%



# **Certificate of Analytical Results 660344**

The Corral Canyon Expansion

Sample Id: P Lab Sample Id: 66	Matrix: Date Collected	Soil : 04.30.2020 09:23	Date Received Sample Depth	:04.30.2020 17:13 1 ft
Tech: M			Prep Method: % Moisture:	
Analyst: M. Seq Number: 31	Date Prep:	05.01.2020 11:30	Basis:	Wet Weight

Parameter	Cas Numbe	r 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		
4-Bromofluorobenzene		460-00-4	106	%	70-130	05.01.2020 13:27		



# **Certificate of Analytical Results 660344**

### LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: Lab Sample Id	<b>PH01A</b> d: 660344-002		Matrix: Date Coll	Soil ected: 04.30.2020 09:25		Date Received Sample Depth:		:13
Analytical Me Tech:	ethod: Chloride by EPA MAB	. 300				Prep Method: % Moisture:	E300P	
Analyst:	MAB		Date Prep	04.30.2020 17:48	;	Basis:	Wet Weight	
Seq Number:	3124742							
Parameter		Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil
Chloride		16887-00-6	33.4	9.90	mg/kg	04.30.2020 22	:53	1

Analytical Method: TPH by SW801 Tech: DTH	15 Mod					Prep Method: SV % Moisture:	V8015P	
Analyst: DTH		Date Pr	ep: 04.30	0.2020 17:30		Basis: W	et 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	s Analysis Dat	e Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
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	



# **Certificate of Analytical Results 660344**

The Corral Canyon Expansion

Sample Id:PH01ALab Sample Id:660344-002	Matrix: Date Collected	Soil d: 04.30.2020 09:25	Date Received Sample Depth	d:04.30.2020 17:13 n: 2 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB			Prep Method: % Moisture:	SW5035A
Analyst: MAB Seq Number: 3124843	Date Prep:	05.01.2020 11:30	Basis:	Wet Weight

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		



## **Certificate of Analytical Results 660344**

### LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: Lab Sample Id	<b>PH02</b> l: 660344-003		Matrix: Date Col	Soil lected: 04.30.2020 0	9:33	Date Received: Sample Depth:		:13
Analytical Me Tech:	thod: Chloride by EPA MAB	300				Prep Method: 1 % Moisture:	E300P	
Analyst: Seg Number:	MAB 3124742		Date Prej	o: 04.30.2020 1	7:48	Basis:	Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil
Chloride		16887-00-6	141	9.88	mg/kg	04.30.2020 22::	59	1

Analytical Method: TPH by SW801	5 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 04.3	30.2020 17:30		Basis: W	Vet 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 20:1	9 U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	04.30.2020 20:1	9 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	04.30.2020 20:1	9 U	1
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	04.30.2020 20:1	9 U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	04.30.2020 20:1	9 U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Da	te Flag	
1-Chlorooctane		111-85-3	101	%	70-135	04.30.2020 20	:19	
o-Terphenyl		84-15-1	110	%	70-135	04.30.2020 20	:19	



# **Certificate of Analytical Results 660344**

The Corral Canyon Expansion

Sample Id: <b>PH02</b> Lab Sample Id: 660344-003	Matrix: Date Collect	Soil ed: 04.30.2020 09:33	Date Received:04.30.2020 17:13 Sample Depth: 1 ft		
Analytical Method: BTEX by EPA 8021B Tech: MAB			Prep Method: % Moisture:	: SW5035A	
Analyst:MABSeq Number:3124843	Date Prep:	05.01.2020 11:30	Basis:	Wet Weight	

Parameter	Cas Number	r 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		460-00-4	113	%	70-130	05.01.2020 14:10		
1,4-Difluorobenzene		540-36-3	117	%	70-130	05.01.2020 14:10		



# **Certificate of Analytical Results 660344**

### LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: PH02A		Matrix:	Soil		Date Received	1:04.30.2020	0 17:13
Lab Sample Id: 660344-004		Date Colle	ected: 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 Weigl	ht
Seq Number: 3124742							
Parameter	Cas Number	Result	RL	Units	Analysis Da	ate Flag	g Dil
Chloride	16887-00-6	14.6	9.92	mg/kg	04.30.2020 23	3:05	1

Analytical Method: TPH by SW801	5 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 04	4.30.2020 17:30		Basis: V	Vet Weight	
Seq Number: 3124749								
Parameter	Cas Number	e Result	RL		Units	Analysis Date	e Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	04.30.2020 20:4	0 U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	04.30.2020 20:4	0 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	04.30.2020 20:4	0 U	1
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	04.30.2020 20:4	0 U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	04.30.2020 20:4	0 U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Da	ite Flag	
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	



# **Certificate of Analytical Results 660344**

# LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id:PH02ALab Sample Id:660344-004	Matrix: Date Collecte	Soil ed: 04.30.2020 09:38	Date Received:04.30.2020 17:13 Sample Depth: 2 ft		
Analytical Method: BTEX by EPA 8021B Tech: MAB			Prep Method: % Moisture:	SW5035A	
Analyst: MAB Seq Number: 3124718	Date Prep:	04.30.2020 17:30	Basis:	Wet Weight	

Parameter	Cas Number	r 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		
4-Bromofluorobenzene		460-00-4	111	%	70-130	05.01.2020 03:10		



# **Certificate of Analytical Results 660344**

### LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Sample Id: <b>PH03</b> Lab Sample Id: 660344-005		Matrix: Date Collecte	Soil d: 04.30.2020 09:43		Date Received Sample Depth	d:04.30.2020 17 n: 1 ft	7:13
Analytical Method: Chloride by EPA Tech: MAB Analyst: MAB Seq Number: 3124857	300	Date Prep:	05.01.2020 07:59		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter	Cas Number	Result R	<u>.</u>	Units	Analysis D	ate Flag	Dil

rarameter	Cas Number	Kesuit	KL	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 SW801	5 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date Pr	rep: 04.	30.2020 17:30		Basis: W	et 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		Cas Number	% Recovery	Units	Limits	Analysis Da	te Flag	
1-Chlorooctane		111-85-3	84	%	70-135	04.30.2020 21	00	

92

%

70-135

04.30.2020 21:00

84-15-1

o-Terphenyl



# **Certificate of Analytical Results 660344**

The Corral Canyon Expansion

Sample Id:PH03Lab Sample Id:660344-005	Matrix:	Soil	Date Received:04.30.2020 17:13		
	Date Collect	ed: 04.30.2020 09:43	Sample Depth: 1 ft		
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3124718	Date Prep:	04.30.2020 17:30	Prep Metho % Moisture Basis:	od: SW5035A e: Wet Weight	

Parameter	Cas Numbe	r 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		
4-Bromofluorobenzene		460-00-4	108	%	70-130	05.01.2020 03:31		



# **Certificate of Analytical Results 660344**

### LT Environmental, Inc., Arvada, CO

The Corral Canyon Expansion

Parameter	Cas Number	Result R	Ĺ	Units	Analysis D	ate Flag	Dil
Seq Number: 3124857							
Analyst: MAB		Date Prep:	05.01.2020 07:59		Basis:	Wet Weight	
Tech: MAB					% Moisture:		
Analytical Method: Chloride by EPA 3	600				Prep Method:	E300P	
Sample Id: <b>PH03A</b> Lab Sample Id: 660344-006		Matrix: Date Collecte	Soil ed: 04.30.2020 09:45		Date Received Sample Depth	7:13	
			G 11		D ( D (	1 0 4 20 2020 1	7.10

Tarameter	Cas Mulliber	Result	KL	Units	Analysis Date	riag	Dii
Chloride	16887-00-6	33.2	9.98	mg/kg	05.01.2020 09:06		1

Analytical Method: TPH by SW801	5 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date Pr	ep: 04.3	0.2020 17:30		Basis: W	et 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 21:2	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 21:2	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Da	te Flag	
1-Chlorooctane		111-85-3	90	%	70-135	04.30.2020 21	21	

99

%

70-135

04.30.2020 21:21

84-15-1

o-Terphenyl



# **Certificate of Analytical Results 660344**

The Corral Canyon Expansion

Sample Id:PH03ALab Sample Id:660344-006	Matrix:	Soil	Date Received:04.30.2020 17:13			
	Date Collect	ed: 04.30.2020 09:45	Sample Depth: 2 ft			
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3124718	Date Prep:	04.30.2020 17:30	Prep Metho % Moistur Basis:	od: SW5035A e: Wet Weight		

Parameter	Cas Number	r Result	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		
4-Bromofluorobenzene		460-00-4	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.

<b>BRL</b> Below Reporting Limit.	ND Not Detected			
<b>RL</b> Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
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/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le 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



### LT Environmental, Inc.

The Corral Canyon Expansion

Analytical Method: Seq Number:	3124742		)0		Matrix:					ep Metho Date Pr	ep: 04.3	30.2020	
MB Sample Id:	7702475-1-I	BLK		LCS Sar	nple Id:	7702475-	-BKS		LCSI	D Sample	e Id: 770	2475-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	257	103	257	103	90-110	0	20	mg/kg	04.30.2020 20:20	
Analytical Method: Seq Number:	<b>Chloride by</b> 3124857	7 EPA 30	)0		Matrix:	Solid			Pr	ep Metho Date Pr		0P 01.2020	
MB Sample Id:	7702477-1-I	BLK		LCS Sar	nple Id:	7702477-	-BKS		LCSI	D Sample	e Id: 770	2477-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	260	104	260	104	90-110	0	20	mg/kg	05.01.2020 08:37	
Analytical Method:	-	<b>EPA 3</b> (	)0		Matrix:	S all			Pr	ep Metho Date Pr			
Seq Number: Parent Sample Id:	3124742 660346-001					660346-00	01 S		MSI		-	30.2020 346-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		189	200	393	102	391	101	90-110	1	20	mg/kg	04.30.2020 20:37	
Analytical Method: Seq Number:	<b>Chloride by</b> 3124742	7 EPA 30	)0		Matrix:	Soil			Pr	ep Metho Date Pr		0P 30.2020	
-	-	7 EPA 30	00			Soil 660346-0	1 S			Date Pr	ep: 04.3		
Seq Number:	3124742	v EPA 30 Parent Result	)0 Spike Amount				1 S MSD %Rec	Limits		Date Pr	ep: 04.3	30.2020	Flag
Seq Number: Parent Sample Id:	3124742	Parent	Spike	MS Sar MS	nple Id: MS	660346-03 MSD	MSD	<b>Limits</b> 90-110	MSI	Date Pro D Sample <b>RPD</b>	ep: 04.3 e Id: 660	30.2020 346-011 SD Analysis	Flag
Seq Number: Parent Sample Id: <b>Parameter</b> Chloride	3124742 660346-011	Parent Result 105	Spike Amount 200	MS Sar MS Result	nple Id: MS %Rec	660346-0 MSD Result	MSD %Rec		MSI %RPD 3	Date Pro D Sample <b>RPD</b> Limit 20	ep: 04.3 d: 660. <b>Units</b> mg/kg	30.2020 346-011 SD Analysis Date 04.30.2020 21:57	Flag
Seq Number: Parent Sample Id: <b>Parameter</b>	3124742 660346-011	Parent Result 105	Spike Amount 200	MS Sar MS Result 317	nple Id: MS %Rec	660346-0 MSD Result 308	MSD %Rec		MSI %RPD 3	Date Pro D Sample RPD Limit	ep: 04.3 E Id: 660 Units mg/kg	30.2020 346-011 SD Analysis Date 04.30.2020 21:57	Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method:	3124742 660346-011 Chloride by	Parent Result 105 7 EPA 30	Spike Amount 200	MS Sar MS Result 317	mple Id: MS %Rec 106 Matrix:	660346-0 MSD Result 308	<b>MSD</b> %Rec 102		MSI %RPD 3 Pr	Date Pr D Sample RPD Limit 20 rep Methe Date Pr	ep: 04.3 e Id: 660. Units mg/kg od: E30 ep: 05.0	30.2020 346-011 SD Analysis Date 04.30.2020 21:57	Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number:	3124742 660346-011 Chloride by 3124857	Parent Result 105 7 EPA 30	Spike Amount 200	MS Sar MS Result 317	mple Id: MS %Rec 106 Matrix:	660346-0 MSD Result 308	<b>MSD</b> %Rec 102		MSI %RPD 3 Pr	Date Pr D Sample RPD Limit 20 rep Methe Date Pr	ep: 04.3 e Id: 660. Units mg/kg od: E30 ep: 05.0	30.2020 346-011 SD Analysis Date 04.30.2020 21:57 0P 01.2020	Flag Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id:	3124742 660346-011 Chloride by 3124857	Parent Result 105 7 EPA 30 Parent	Spike Amount 200 00 Spike	MS Sar MS Result 317 MS Sar MS	nple Id: MS %Rec 106 Matrix: nple Id: MS	660346-0. MSD Result 308 Soil 660344-00 MSD	MSD %Rec 102	90-110	MSI %RPD 3 Pr MSI	Date Pro D Sample RPD Limit 20 rep Metho Date Pro D Sample RPD	ep: 04.3 e Id: 660. Units mg/kg od: E30 ep: 05.0 e Id: 660.	30.2020 346-011 SD Analysis Date 04.30.2020 21:57 00P 01.2020 344-005 SD Analysis	
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride	3124742 660346-011 Chloride by 3124857 660344-005	Parent Result 105 FEPA 30 Parent Result 51.2	Spike Amount 200 00 Spike Amount 199	MS Sar MS Result 317 MS Sar MS Result	nple Id: MS %Rec 106 Matrix: nple Id: MS %Rec	660346-0. MSD Result 308 Soil 660344-00 MSD Result	MSD %Rec 102	90-110 Limits	MSI %RPD 3 Pr MSI %RPD 2	Date Pro D Sample RPD Limit 20 rep Metho Date Pro D Sample RPD Limit 20	ep: 04.3 e Id: 660. Units mg/kg od: E30 ep: 05.0 e Id: 660. Units mg/kg	30.2020 346-011 SD Analysis Date 04.30.2020 21:57 00P 01.2020 344-005 SD Analysis Date 05.01.2020 08:54	
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter	3124742 660346-011 Chloride by 3124857 660344-005	Parent Result 105 FEPA 30 Parent Result 51.2	Spike Amount 200 00 Spike Amount 199	MS Sar MS Result 317 MS Sar MS Result 258	nple Id: MS %Rec 106 Matrix: nple Id: MS %Rec 104 Matrix:	660346-0. MSD Result 308 Soil 660344-00 MSD Result 263 Soil	MSD %Rec 102 05 S MSD %Rec 106	90-110 Limits	MSI %RPD 3 Pr MSI %RPD 2 Pr	Date Pro D Sample RPD Limit 20 rep Metho Date Pro D Sample RPD Limit 20 rep Metho Date Pro	ep: 04.3 e Id: 660. Units mg/kg od: E30 ep: 05.0 e Id: 660. Units mg/kg od: E30 ep: 05.0	80.2020 346-011 SD Analysis Date 04.30.2020 21:57 00P 01.2020 344-005 SD Analysis Date 05.01.2020 08:54	
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method:	3124742 660346-011 Chloride by 3124857 660344-005 Chloride by	Parent Result 105 FEPA 30 Parent Result 51.2	Spike Amount 200 00 Spike Amount 199	MS Sar MS Result 317 MS Sar MS Result 258	nple Id: MS %Rec 106 Matrix: nple Id: MS %Rec 104 Matrix:	660346-0. MSD Result 308 Soil 660344-00 MSD Result 263	MSD %Rec 102 05 S MSD %Rec 106	90-110 Limits	MSI %RPD 3 Pr MSI %RPD 2 Pr	Date Pr D Sample RPD Limit 20 rep Metho Date Pr D Sample RPD Limit 20 rep Metho Date Pr D Sample	ep: 04.3 e Id: 660. Units mg/kg od: E30 ep: 05.0 e Id: 660. Units mg/kg od: E30 ep: 05.0	30.2020 346-011 SD Analysis Date 04.30.2020 21:57 00P 01.2020 344-005 SD Analysis Date 05.01.2020 08:54	
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number:	3124742 660346-011 Chloride by 3124857 660344-005 Chloride by 3124857	Parent Result 105 FEPA 30 Parent Result 51.2	Spike Amount 200 00 Spike Amount 199	MS Sar MS Result 317 MS Sar MS Result 258	nple Id: MS %Rec 106 Matrix: nple Id: MS %Rec 104 Matrix:	660346-0. MSD Result 308 Soil 660344-00 MSD Result 263 Soil	MSD %Rec 102 05 S MSD %Rec 106	90-110 Limits	MSI %RPD 3 Pr MSI %RPD 2 Pr	Date Pro D Sample RPD Limit 20 rep Metho Date Pro D Sample RPD Limit 20 rep Metho Date Pro	ep: 04.3 e Id: 660. Units mg/kg od: E30 ep: 05.0 e Id: 660. Units mg/kg od: E30 ep: 05.0	80.2020 346-011 SD Analysis Date 04.30.2020 21:57 00P 01.2020 344-005 SD Analysis Date 05.01.2020 08:54	
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Chloride Analytical Method: Seq Number: Parent Sample Id:	3124742 660346-011 Chloride by 3124857 660344-005 Chloride by 3124857	Parent Result 105 7 EPA 30 Parent Result 51.2 7 EPA 30 Parent	Spike Amount 200 00 Spike Amount 199 00 Spike	MS Sar MS Result 317 MS Sar MS Result 258 MS Sar MS Sar	nple Id: MS %Rec 106 Matrix: nple Id: MS %Rec 104 Matrix: nple Id: MS	660346-0. MSD Result 308 Soil 660344-00 MSD Result 263 Soil 660345-00 MSD	MSD %Rec 102 05 S MSD %Rec 106	90-110 <b>Limits</b> 90-110	MSI %RPD 3 Pr MSI %RPD 2 Pr MSI	Date Pro D Sample RPD Limit 20 rep Metho Date Pro D Sample RPD Limit 20 rep Metho Date Pro Date Pro Date Pro Date Pro	ep: 04.3 e Id: 660. Units mg/kg od: E30 ep: 05.0 e Id: 660. Units mg/kg od: E30 ep: 05.0 e Id: 660.	80.2020 346-011 SD Analysis Date 04.30.2020 21:57 00P 01.2020 344-005 SD Analysis Date 05.01.2020 08:54 00P 01.2020 345-009 SD Analysis	Flag

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

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Final 1.000
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### QC Summary 660344

#### LT Environmental, Inc.

The Corral Canyon Expansion

Analytical Method: Seq Number: MB Sample Id:	<b>TPH by S</b> 3124745 7702485-1		od	] LCS San	Matrix: 1ple Id:	Solid 7702485-1	I-BKS			ep Methe Date Pr D Sample	ep: 04.3	8015P 80.2020 2485-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	< 50.0	1000	1090	109	857	86	70-135	24	35	mg/kg	04.30.2020 12:30	
Diesel Range Organics (	DRO)	<50.0	1000	1120	112	961	96	70-135	15	35	mg/kg	04.30.2020 12:30	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			mits	Units	Analysis Date	
1-Chlorooctane		94		12	27		111		70	-135	%	04.30.2020 12:30	
o-Terphenyl		101		12	20		108		70	-135	%	04.30.2020 12:30	

Analytical Method:	TPH by S	W8015 M	od						Pi	rep Meth	od: SW	8015P	
Seq Number:	3124749				Matrix:	Solid				Date Pr	ep: 04.3	30.2020	
MB Sample Id:	7702481-1	-BLK		LCS San	nple Id:	7702481-	1-BKS		LCS	D Sample	e Id: 770	2481-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	< 50.0	1000	951	95	839	84	70-135	13	35	mg/kg	04.30.2020 12:30	
Diesel Range Organics (	(DRO)	< 50.0	1000	1070	107	921	92	70-135	15	35	mg/kg	04.30.2020 12:30	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		99		1	23		120		70	-135	%	04.30.2020 12:30	
o-Terphenyl		109		1	22		106		70	-135	%	04.30.2020 12:30	

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8	3015P	
Seq Number:	3124745	Matrix:	Solid	Date Prep:	04.3	0.2020	
		MB Sample Id:	7702485-1-BLK				
Parameter		MB Result		U	Inits	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)	<50.0		m	ng/kg	04.30.2020 12:10	

Analytical Method: Seq Number:	<b>TPH by SW8015 Mod</b> 3124749	Matrix: MB Sample Id:	Solid 7702481-1-BLK	Prep Method: Date Prep:			
Parameter		MB Result			J <b>nits</b>	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)	<50.0		m	ng/kg	04.30.2020 12:10	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

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#### QC Summary 660344

#### LT Environmental, Inc.

The Corral Canyon Expansion

Analytical Method:TPH bySeq Number:3124745Parent Sample Id:660344-0	SW8015 M	od		Matrix: nple Id:	Soil 660344-00	01 S			ep Methe Date Pr D Sample	ep: 04.3	8015P 80.2020 344-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.3	1010	916	91	928	93	70-135	1	35	mg/kg	04.30.2020 19:38	
Diesel Range Organics (DRO)	<50.3	1010	1020	101	1040	104	70-135	2	35	mg/kg	04.30.2020 19:38	
Surrogate				1S Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane			1	16		118		70	-135	%	04.30.2020 19:38	
o-Terphenyl			1	15		118	i	70	-135	%	04.30.2020 19:38	

Analytical Method:	TPH by SV	W8015 M	od						P	rep Metho	od: SW	8015P	
Seq Number:	3124749				Matrix:	Soil				Date Pr	ep: 04.3	30.2020	
Parent Sample Id:	660344-002	2		MS Sar	nple Id:	660344-00	02 S		MS	D Sample	e Id: 660	344-002 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<49.8	995	888	89	888	89	70-135	0	35	mg/kg	04.30.2020 19:38	
Diesel Range Organics (	(DRO)	<49.8	995	1000	101	1000	100	70-135	0	35	mg/kg	04.30.2020 19:38	
Surrogate					1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1-Chlorooctane				1	16		109		70	-135	%	04.30.2020 19:38	
o-Terphenyl				1	15		114		70	-135	%	04.30.2020 19:38	

Analytical Method:	BTEX by EPA 8021	B						P	rep Meth	od: SW	5035A	
Seq Number:	3124718		]	Matrix:	Solid				Date Pr	ep: 04.3	30.2020	
MB Sample Id:	7702473-1-BLK		LCS San	nple Id:	7702473-1	I-BKS		LCS	D Sample	e Id: 770	2473-1-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	0.0978	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	04.30.2020 18:36	
Ethylbenzene	< 0.00200	0.100	0.0829	83	0.0909	91	71-129	9	35	mg/kg	04.30.2020 18:36	
m,p-Xylenes	< 0.00400	0.200	0.164	82	0.178	89	70-135	8	35	mg/kg	04.30.2020 18:36	
o-Xylene	< 0.00200	0.100	0.0880	88	0.0951	95	71-133	8	35	mg/kg	04.30.2020 18:36	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene	112		1	10		108		70	-130	%	04.30.2020 18:36	
4-Bromofluorobenzene	102		1	01		97		70	-130	%	04.30.2020 18:36	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

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### QC Summary 660344

#### LT Environmental, Inc.

The Corral Canyon Expansion

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>BTEX by EPA 8021</b> 3124843 7702532-1-BLK	B		Matrix: nple Id:	Solid 7702532-1	I-BKS			rep Metho Date Pr D Sample	ep: 05.0	5035A )1.2020 2532-1-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	LCSD %Rec			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	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3124718 660346-003	B	] MS San	Matrix: nple Id:		)3 S			rep Metho Date Pro D Sample	ep: 04.3	5035A 30.2020 346-003 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	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				IS Rec	MS Flag	MSD %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	10		107		70	-130	%	04.30.2020 19:19	
4-Bromofluorobenzene			1	00		107		70	-130	%	04.30.2020 19:19	

Analytical Method:	BTEX by EPA 8021	1B						Р	rep Meth	od: SW	5035A	
Seq Number:	3124843			Matrix:	Soil				Date Pr	ep: 05.0	01.2020	
Parent Sample Id:	660344-001		MS Sar	nple Id:	660344-00	01 S		MS	D Sample	e Id: 660	344-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	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				IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	10		111		70	)-130	%	05.01.2020 17:01	
4-Bromofluorobenzene			1	00		103		70	0-130	%	05.01.2020 17:01	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

Page 60 of 62 Project Manager: Company Name: Phone:			Hobbs,N Permian office	Houstor Midlar fice	n, TX (281) 240-4200 nd, TX (432-704-6440 2-7550) Phoenix, AZ Bill to: (if different) Bill to: (if different) Company Name: Address: City, State ZIP: City, State ZIP:	C 4200 p -5440)   (x,AZ (4) (x,AZ (4) (x,AZ (4) (x,AZ (4) (x,AZ (4)) (x,AZ (4	hailas,TX allas,TX EL Pasc EL		hain o las.TX (214) : Paso.TX (91 -355-0900) / Kyle Littrell Kyle Littrell XTO Energy 3104 E Gre 3104 E Gre 3104 E Gre	Chain of Cu Dalas,TX (214) 902-0300 ) EL Paso,TX (915)585-3- (480-355-0900) Atlanta,G (480-355-0900) Atlanta,G (480-300)	n of Custc (214) 902-0300 San A ,TX (915)585-3443 Lut 1900) Atlanta,GA (770- 1ittrell Littrell Energy E Greene St. E Greene St. bad, NM 2asey@ltenv.com a	Chain of Custody         Iduston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, T         Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, T>         775-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-880         Bill to: (if different)       Kyle Littrell         Company Name:       XTO Energy         Address:       3104 E Greene St.         City, State ZIP:       Carlsbad, NM         Email:       tmorrissey@ltenv.com tcasey@ltenv.com ab	Chain of Custody         ouston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210)         Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)7         75-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tam         Bill to: (if different)       Kyle Littrell         Company Name:       XTO Energy         Address:       3104 E Greene St.         City, State ZIP:       Carlsbad, NM         Email:       tmorrissey@ltenv.com tcasey@ltenv.com ab	Chain of Custody         Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334         Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296         575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813         Bill to: (if different)       Kyle Littrell         Company Name:       XTO Energy         Address:       3104 E Greene St.         City, State ZIP:       Carlsbad, NM         Email:       tmorrissey@ltenv.com tcasey@ltenv.com ab	n of Custody         (214) 902-0300 San Antonio,TX (210) 509-3334         .TX (915)585-3443 Lubbock,TX (806)794-1296         .900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000         Littrell         Energy         E Greene St.         bad, NM         casey@ltenv.com ab         Delive		n of Custody         (214) 902-0300 San Antonio, TX (210) 509-3334         .TX (915)585-3443 Lubbock, TX (806)794-1296         1900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)         Littrell         Energy         E Greene St.         bad, NM         casey@ltenv.com ab         ANALYSIS RECUIEST	Wo m: UST/PST [ ables: EDD [	Wo m: UST/PST [ ables: EDD [	Wo m: UST/PST [ ables: EDD [	Work Order No: _ 	Work Order No:	Work Order No:       (g (g)         www.xenco.com       Page         work Order Comments       Rr         ables:       EDD       ADaPT         work O       Work O	Work Order No:
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Sampler's Name:	Travis Casey			Due	Due Date:		-																	
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Temperature (°C):		8.	(	Thermometer ID		iners			)															
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Cooler Custody Seals:	Yes		Corr	Correction Factor:	1	f Co	015)	802	PA 3												ТА	TAT start	TAT starts the c	TAT starts the day rev
Sample Custody Seals:		No NIA	Tota	Total Containers:	6	er of	PA 8	EPA	e (El													lab, i	lab, if recei	lab, if received by 4:30pm
Sample Identification	ntification	Matrix	Date Sampled	Time Sampled	Depth	Numbe	TPH (EF	BTEX (E	Chlorid													San	Sample	Sample Comments
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Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu otice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcon r service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such r 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	d(s) and Metal( document and reline liable only for the harce of \$75.00 will	s) to be ana quishment of a cost of sample	alyzed samples consti s and shall not	TCLP / SP tutes a valid pu assume any re- d a charge of \$5	TCLP / SPLP 6010: 8RCRA utes a valid purchase order from client assume any responsibility for any losse a charoe of \$5 for each sample submit	RCRA m client ny losse	Sb As company to s or expense ed to Xence	As Ba y to Xen enses in	Ba Be Co Xenco, its affi res incurred by b. but not analy	Cd Cr Co Cu affiliates and subcor d by the client if such nalyzed. These terms		Cu subcor if suct	Cu Pb N subcontractors if such losses	Cu Pb Mn Mo N subcontractors. It assigns if such losses are due to c terms will be enforced ur	Cu Pb Mn Mo Ni Se A subcontractors. It assigns standard if such losses are due to circumstan terms will be enforced unless previ	Cu Pb Mn Mo Ni Se Ag TI L subcontractors. It assigns standard terms a if such losses are due to circumstances bey terms will be enforced unless previously ne	Cu Pb Mn Mo Ni Se Ag TI U subcontractors. It assigns standard terms and cond if such losses are due to circumstances beyond the terms will be enforced unless previously negotiated	Cu Pb Mn Mo Ni Se Ag TI U subcontractors. It assigns standard terms and conditions if such losses are due to circumstances beyond the control terms will be enforced unless previously negotiated.	Pb Mn Mo Ni Se Ag Ti U tractors. It assigns standard terms and conditions losses are due to circumstances beyond the control will be enforced unless previously negotiated.					1631 / 245.1 / 7470
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## **XENCO** Laboratories

### Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature	e Range: 0 - 6 degC
Date/ Time Received: 04.30.2020 05.13.00 PM	Air and Metal samples A	Acceptable Range: Ambient
Work Order #: 660344	Temperature Measuring	device used: T-NM-007
Sample	Receipt Checklist	Comments
#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	
#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/ receiv	ed? Yes	
#10 Chain of Custody agrees with sample labels/matri	x? 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	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan
Checklist reviewed by: Jessica Warmer

Date: 04.30.2020

Jessica Kramer

Date: 05.01.2020

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CONDITIONS

Action 11278

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

Bit S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 Dictrict III

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

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

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

#### CONDITIONS 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		