

3300 North A Street, Building 1, #103 Midland, Texas 79705 T 432.704.5178 / F 432.704.5179

April 6, 2018

Advancing Opportunity

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

RE: Closure Request Hasta La Vista 1 DI Federal COM 001H Remediation Permit Number 2RP-3725 Eddy County, New Mexico

Dear Mr. Bratcher;

LT Environmental, Inc. (LTE), representing XTO Energy, Inc. (XTO), is pleased to present to the New Mexico Oil Conservation Division (NMOCD) the following letter report detailing confirmation soil sampling activities at the Hasta La Vista 1 DI Federal COM 001H (Site) in Section 5 of Township 20 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the investigation was to assess impacts to soil after the flare scrubber was loaded and caused fluid to exit the flare. This resulted in a release of approximately 9 barrels (bbls) of crude oil that was discovered on May 26, 2016. The spill impacted approximately 34,600 square feet of a pasture to the east of the flare due to high winds. No free-standing liquids were recovered and vegetation and soil in the pasture was treated with Micro-Blaze[®] the morning of May 27, 2016. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on June 7, 2016, and was assigned Remediation Permit Number (RP) 2RP-3725 (Attachment 1). Although the impact occurred while the well was operated by the previous operator, XTO is the current operator and is committed to addressing any releases that remain unresolved. The sampling was conducted to confirm remediation had been conducted successfully. Based on the results of the sampling event as described herein, XTO is requesting no further action for this release.

BACKGROUND

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data and known aquifer properties. The nearest permitted water well is C 02095, located approximately 1.13 miles northeast of the Site, with a depth to groundwater of 140 feet bgs and a total depth of 220 feet bgs. The closest surface water to the Site is an arroyo located approximately 670 feet to the south of the Site. Based on these criteria, the NMOCD site ranking for remediation action levels is a 10, and the following remediation action levels apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg benzene, toluene, ethylbenzene, and total xylenes (BTEX); and 1,000 mg/kg total petroleum hydrocarbons (TPH). Based on standard practice for this region, LTE proposes a site-specific chloride action level of 600 mg/kg or within a range (plus or minus 10 percent [%]) of the background concentrations.





Bratcher, M Page 2

SOIL SAMPLING

Soil sample locations were selected based on visual inspection of the Site and Form C-141 information. Based on the latitude and longitude provided for the flow line release location and description of the affected area, LTE determined the release occurred in an area north of the well pad. LTE collected six soil samples on February 27, 2018 as depicted on Figure 2. No visual or olfactory evidence of the release was observed. LTE made an effort to collect representative samples around the reported release source and at any potential downgradient surface areas as identified by topographic slope and/or evidence of surface flow features (channels, depressions, or other erosional features).

To eliminate the effects from weathering and natural degradation of contaminants at the ground surface, subsurface samples were collected from each location at roughly six inches bgs by hand auger. The soil samples were collected directly into pre-cleaned glass jars, labeled with location, date, time, sampler, and method of analysis, and immediately placed on ice. The samples were delivered at 3.4 degrees Celsius (°C) under strict chain-of-custody to Xenco Laboratories in Midland, Texas, for analysis of BTEX by United States Environmental Protection Agency (USEPA) Method 8021B, TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and motor oil range organics (MRO) by USEPA Method 8015, and chloride by method USEPA Method 300.0.

ANALYTICAL RESULTS

Laboratory analytical results for all six soil samples indicated BTEX concentrations were below laboratory detection limits. Laboratory analytical results for TPH indicated no detected concentrations exceeded the NMOCD remediation action levels for the Site with values ranging from below the detection limit (SS1, SS2, SS3, SS4, and SS05) to 941 mg/kg in sample SS6. Chloride concentrations in all soil samples were below the detection limit. Laboratory analytical results are presented in Table 1 and Figure 2, and the complete laboratory analytical report is included as Attachment 2.

CONCLUSIONS

Laboratory analytical results for soil samples collected within the former release footprint indicate impact to soil, as defined by concentrations of BTEX, TPH, and chloride, do not exceed NMOCD site-specific standards. Initial response efforts and natural degradation have remediated this Site, and XTO requests no further action for this release.





Bratcher, M Page 3

If you have any questions or comments, do not hesitate to contact Adrian Baker at (432) 887-1255 or <u>abaker@ltenv.com</u>.

Sincerely,

LT ENVIRONMENTAL, INC.

Win

Adrian Baker Project Geologist

Ashley L. ager

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

Attachments:Figure 1Site Location MapFigure 2Soil Sample LocationsTable 1Soil Analytical ResultsAttachment 1Initial/Final NMOCD Form C-141Attachment 2Laboratory Analytical Report

cc: Kyle Littrell, XTO Crystal Weaver, NMOCD Jim Amos, BLM Shelly Tucker, BLM



FIGURES





Released to Imaging: 3/21/2023 7:18:28 AM



Released to Imaging: 3/21/2023 7:18:28 AM

TABLE



TABLE 1 SOIL ANALYTICAL RESULTS HASTA LA VISTA 1 DI FEDERAL COM 001H REMEDIATION PERMIT NUMBER 2RP-3725 EDDY COUNTY, NEW MEXICO XTO ENERGY INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 Gasoline Range Organics (mg/kg)	C10-C28 Diesel Range Organics (mg/kg)	C28-C40 Motor Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS1	1	2/27/2018	< 0.00202	< 0.00202	< 0.00202	< 0.00202	< 0.00202	<15.0	<15.0	<15.0	<15.0	<4.90
SS2	1	2/27/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	<15.0	<15.0	<15.0	<4.98
SS3	1	2/27/2018	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<14.9	<14.9	<14.9	<14.9	<4.96
SS4	1	2/27/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	<15.0	<15.0	<15.0	<4.90
SS5	1	2/27/2018	< 0.00198	< 0.00198	< 0.00198	< 0.00198	< 0.00198	<14.9	<14.9	<14.9	<14.9	<4.96
SS6	1	2/27/2018	< 0.00202	< 0.00202	< 0.00202	< 0.00202	< 0.00202	<15.0	873	68	941.00	<4.93
NMOCD Regulatory	Standard	NE	10	NE	NE	NE	50	NE	NE	NE	1,000	600

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

mg/kg - milligrams per kilogram

NMOCD - New Mexico Oil Conservation Division

NE - not established

TPH - total petroleum hydrocarbons



ATTACHMENT 1

INITIAL/FINAL NMOCD FORM C-141



eceived by OCD: 3/21/2023 7:16:42 AM			IL CONSERVATION ARTESIA DISTRICT	Page 10 of
District 1 1625 N. French Dr., Hobbs, NM 88240 District 11 E	State of New Mex nergy Minerals and Natura			orm C-141 ugust 8, 2011
811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410	Oil Conservation Div	vision Sul	bn RECEIVED propriate Distr accordance with 19.15	ict Office in 29 NMAC.
District IV 220 S. St. Francis Dr., Santa Fe, NM 87505	1220 South St. Franc Santa Fe, NM 875			
	Notification and Co	prrective Action	n	
NAB1416126496	OPERA'		Initial Report	Final Report
Name of Company: BOPCO, L.P. Address: 522 W. Mermod, Suite 704 Carlsbad, N	Contact: An LM, 88220 Telephone I	No. 575-887-7329		
acility Name: Hasta La Vista 1 DI Federal Cor		e: Exploration and Pro	oduction	
urface Owner: Federal	Mineral Owner: Federal	······································	API No. 30-015-42533	
	LOCATION OF RE			
Jnit LetterSectionTownshipRangeFeet3520S31E100	from the North/South Linc North	Feet from the East/ 2330 East	West Line County Eddy	
Latitude	<u>32.609315°</u> Longitude	e103.890512°.		
	NATURE OF REL	EASE		_
ype of Release Crude Oil	Volume of	Release 9 bbis	Volume Recovered 0 bbls	
ource of Release Flare		four of Occurrence time unknown	Date and Hour of Discovery 5/26/2016 10:15 am	
Vas Immediate Notice Given?	Not Required N/A	Whom?	••••••	
By Whom? N/A	Date and H			
Was a Watercourse Reached?	If YES, Ve N/A	olume Impacting the Wat	tercourse.	
f a Watercourse was Impacted, Describe Fully.* N/A				
Describe Cause of Problem and Remedial Action Tak Flare scrubber loaded up causing fluid to exit flare.	n.*			
Describe Area Affected and Cleanup Action Taken.* Leak affected 34,600 sq. ft. of pasture to the east of th	a flare due to high winds. Area y	was washed down with n	vicroblaze on morning of 5/27/20	16
sour ansered 5 5000 sq. n. or passive to the east of th				
hereby certify that the information given above is true egulations all operators are required to report and/or public health or the environment. The acceptance of a should their operations have failed to adequately inves- or the environment. In addition, NMOCD acceptance cederal, state, or local laws and/or regulations.	ile certain release notifications a C-141 report by the NMOCD m tigate and remediate contaminat	nd perform corrective ac arked as "Final Report" ion that pose a threat to g	tions for releases which may end does not relieve the operator of l ground water, surface water, hurr	langer liability an health
Signature: August Luck	Approved by	OIL CONSERV Signed By 2 Environmental Special	VATION DIVISION	
Printed Name: Amy C. Ruth		idalit.		
Title: EHS Remediation Specialist	Approval Da		Expiration Date: N//	
E-mail Address: ACRuth@basspet.com	Conditions o Remedia	f Approval: tion per O.C.D. Ru	les & Guidelinesd	
Date: 6/7/2016 Phone: 432-661-0	571 SUBMIT	REMEDIATION PF	OPOSAL NO	the
attach Additional Sheets If Necessary	LATER T	HAN: <u>~1[9]]][</u>	e drep-c	ンタワ

Received	by	OCD :	3/21/2023	7:16:42 AM
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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

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

Form C-141 Revised April 3, 2017

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Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Franc	cis Dr., Santa	a Fe, NM 87505	;	Sa	anta Fe	e, NM 875	05					
			Rele	ease Notific	catior	and Co	orrective A	ction				
						OPERA	ΓOR		🗌 Initia	al Report	\boxtimes	Final Report
Name of Co	mpany X	TO Energy				Contact Kyl	e Littrell					
		ne Street Car	lsbad, N.	M. 88220			No. 432-221-733	31				
Facility Nan	ne Hasta I	a Vista 1 D	[Federal	Com 001H		Facility Type Exploration and Production						
Surface Own	ner Federa	1		Mineral C)wner F	ederal			API No	. 30-015-4	2533	1
Surface of A											2000	
Unit Letter	Section	Township	Range	LOCA Feet from the		N OF RE	Feet from the	Eact/W	/est Line	County		
B	5	20S	31E	100		South	2330		East	Eddy	_	
		Latitude_	N	32.609315	L	ongitude	103.89051	2	NA	.D83		
				NAT	URE	OF REL						
Type of Relea	ase Crude	Oil				Volume of	Release 9 bbls		Volume F	Recovered (bbls	
Source of Release Flare Date and Hour of Occurrence Date and Hour of Discovery 5/26/16 time unknown 5/26/2016 10:15AM												
Was Immediate Notice Given? If YES, To Whom? Yes No No Not Required												
By Whom? N	[/A				_	Date and H	lour N/A					
Was a Watero							olume Impacting t	the Wate	rcourse.			
			Yes 🛛	No		N/A						
If a Watercou	rse was Im	pacted, Descr	ibe Fully.*	' N/A								
Describe Cau	se of Probl	em and Reme	dial Action	1 Taken.*								
Flare scrubbe												
Describe Area	a Affected	and Cleanup 4	Action Tak	en *							_	
					to high w	vinds. Area w	as washed down	with mic	roblaze on	morning of	5/27/2	.016.
			<u> </u>			0				-		
				area on February ollected within th			dicate concentrati	ions of B	TEX TPH	and chlori	de do r	ot exceed
NMOCD rem			sampies e		ie reieus			0113 01 13	1127, 111			
x x x x x	0 11 1 1	0		• . •		1		_	1.1.		0.00	
							knowledge and und perform correct					
							arked as "Final R					
should their o	perations h	ave failed to a	idequately	investigate and r	emediate	e contaminati	on that pose a thr	eat to gr	ound water	, surface wa	ter, hu	man health
				tance of a C-141	report de	oes not reliev	e the operator of	responsi	bility for c	ompliance v	vith any	y other
federal, state,	or local lay	ws and/or regu					OIL CON	CEDV	ATION	DIVISIO	NI	
	OIL CONSERVATION DIVISION											
Signature	Signature / uno											
Printed Name	Printed Name: Kyle Littrell Approved by Environmental Specialist:											
Title: SH&E	Coordinato	r				Approval Dat	ie:	E	Expiration	Date:		
E-mail Addre	ss: Kyle_L	ittrell@xtoene	ergy.com			Conditions of	Approval:			Attached		
Date:	4/6/2	018	Pho	ne: 432-221-73	31						<u> </u>	
Attach Addit				по. т <i>32-22</i> 1-7J.						1		

ATTACHMENT 2

LABORATORY ANALYTICAL REPORT



for LT Environmental, Inc.

Project Manager: Adrian Baker Hasta la vista 001H/ 2RP-3725

09-MAR-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-18-14) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176)



09-MAR-18

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

Reference: XENCO Report No(s): 577913 Hasta la vista 001H/ 2RP-3725 Project Address: NM

Adrian Baker:

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) 577913. 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. 577913 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,

Jession Vermer

Jessica Kramer Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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

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Sample Cross Reference 577913



LT Environmental, Inc., Arvada, CO

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS1	S	02-27-18 09:55	12 In	577913-001
SS2	S	02-27-18 10:10	12 In	577913-002
SS3	S	02-27-18 10:20	12 In	577913-003
SS4	S	02-27-18 10:35	12 In	577913-004
SS5	S	02-27-18 10:45	12 In	577913-005
SS6	S	02-27-18 10:55	12 In	577913-006



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Hasta la vista 001H/ 2RP-3725

Project ID: Work Order Number(s): 577913 Report Date:09-MAR-18Date Received:03/01/2018

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3042981 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Project Id:Contact:Adrian BakerProject Location:NM

Certificate of Analysis Summary 577913

LT Environmental, Inc., Arvada, CO Project Name: Hasta la vista 001H/ 2RP-3725



Date Received in Lab: Thu Mar-01-18 01:10 pm Report Date: 09-MAR-18 Project Manager: Jessica Kramer

	Lab Id:	577913-0	001	577913-0	002	577913-0	003	577913-	004	577913-	005	577913-0	006
Analysis Requested	Field Id:	SS1		SS2		SS3		SS4		SS5		SS6	
Analysis Kequestea	Depth:	12- In	1	12- Ir	1	12- In		12- II	1	12- Ir	1	12- Ir	1
	Matrix:	SOIL	,	SOIL	,	SOIL		SOIL		SOIL	,	SOIL	
	Sampled:	Feb-27-18	09:55	Feb-27-18	10:10	Feb-27-18	10:20	Feb-27-18	10:35	Feb-27-18	10:45	Feb-27-18	10:55
BTEX by EPA 8021B	Extracted:	Mar-06-18	15:00										
	Analyzed:	Mar-07-18	14:39										
	Units/RL:	mg/kg	RL										
Benzene		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00202	0.00202
Toluene		< 0.00202	0.00202	< 0.00201	0.00201	<0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00202	0.00202
Ethylbenzene		< 0.00202	0.00202	< 0.00201	0.00201	<0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00202	0.00202
m,p-Xylenes		< 0.00404	0.00404	< 0.00402	0.00402	< 0.00398	0.00398	< 0.00399	0.00399	< 0.00396	0.00396	< 0.00403	0.00403
o-Xylene		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00202	0.00202
Total Xylenes		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00202	0.00202
Total BTEX		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00202	0.00202
Inorganic Anions by EPA 300	Extracted:	Mar-07-18	13:00										
	Analyzed:	Mar-08-18	23:28	Mar-08-18	23:43	Mar-08-18	23:49	Mar-08-18	23:54	Mar-08-18	23:59	Mar-09-18	00:05
	Units/RL:	mg/kg	RL										
Chloride		<4.90	4.90	<4.98	4.98	<4.96	4.96	<4.90	4.90	<4.96	4.96	<4.93	4.93
TPH by SW8015 Mod	Extracted:	Mar-05-18	07:00										
	Analyzed:	Mar-05-18	12:06	Mar-05-18	12:32	Mar-05-18	12:58	Mar-05-18	13:23	Mar-05-18	13:48	Mar-05-18	14:16
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<14.9	14.9	873	15.0
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<14.9	14.9	68.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<14.9	14.9	941	15.0

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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

fession kenner

Jessica Kramer Project Assistant





LT Environmental, Inc., Arvada, CO

Sample Id: SS1 Lab Sample Id: 577913-001		Matrix: Date Collect	Soil ted: 02.27.18 09.55		ceived:03.01 Depth: 12 In		
Analytical Method: Inorganic Anions b Tech: OJS Analyst: OJS Seq Number: 3043195	y EPA 300	Date Prep:	03.07.18 13.00	Prep Me % Moist Basis:)P Weight	
Parameter	Cas Number	Result	RL	Units Anal	ysis Date	Flag	Dil

rarameter	Cas Number	Result	KL	Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	<4.90	4.90	mg/kg	03.08.18 23.28	U	1	

Analytical Method: TPH by SW801	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 03.05.	18 07.00	E	Basis: We	t Weight	
Seq Number: 3042902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.05.18 12.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.05.18 12.06	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	03.05.18 12.06	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	03.05.18 12.06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-135	03.05.18 12.06		
o-Terphenyl		84-15-1	96	%	70-135	03.05.18 12.06		





LT Environmental, Inc., Arvada, CO

Sample Id:SS1Lab Sample Id:577913-001	Matrix: Soil Date Collected: 02.27.18 09.55	Date Received:03.01.18 13.10 Sample Depth: 12 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3042981	Date Prep: 03.06.18 15.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	03.07.18 14.39	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	03.07.18 14.39	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	03.07.18 14.39	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	03.07.18 14.39	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	03.07.18 14.39	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	03.07.18 14.39	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	03.07.18 14.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	109	%	70-130	03.07.18 14.39		
1,4-Difluorobenzene		540-36-3	77	%	70-130	03.07.18 14.39		





LT Environmental, Inc., Arvada, CO

Sample Id:SS2Lab Sample Id:577913-002		Matrix: Date Collecte	Soil d: 02.27.18 10.10		te Received:03. nple Depth: 12		
Analytical Method: Inorganic Anions Tech: OJS	by EPA 300			% N	p Method: E3 Moisture:	00P	
Analyst: OJS Seq Number: 3043195		Date Prep:	03.07.18 13.00	Bas	sis: We	t Weight	
Parameter	Cas Number	Result R	L	Units	Analysis Date	Flag	Dil

rarameter	Cas Number	Kesuit	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	03.08.18 23.43	U	1

Analytical Method: TPH by SW801	5 Mod				P	rep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 03.05.	18 07.00	E	Basis: We	t Weight	
Seq Number: 3042902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.05.18 12.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.05.18 12.32	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	03.05.18 12.32	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	03.05.18 12.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	107	%	70-135	03.05.18 12.32		
o-Terphenyl		84-15-1	104	%	70-135	03.05.18 12.32		





LT Environmental, Inc., Arvada, CO

Sample Id:SS2Lab Sample Id:577913-002	Matrix: Soil Date Collected: 02.27.18 10.10	Date Received:03.01.18 13.10 Sample Depth: 12 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3042981	Date Prep: 03.06.18 15.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.07.18 14.39	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.07.18 14.39	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.07.18 14.39	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	03.07.18 14.39	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	03.07.18 14.39	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	03.07.18 14.39	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	03.07.18 14.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	112	%	70-130	03.07.18 14.39		
1,4-Difluorobenzene		540-36-3	81	%	70-130	03.07.18 14.39		





LT Environmental, Inc., Arvada, CO

Sample Id: SS3 Lab Sample Id: 577913-003		Matrix: Date Collect	Soil ed: 02.27.18 10.20	Date Recei Sample De	ived:03.01.18 13.10 epth: 12 In	
Analytical Method: Inorganic Anions Tech: OJS Analyst: OJS	by EPA 300	Date Prep:	03.07.18 13.00	Prep Meth % Moistur Basis:	od: E300P e: Wet Weight	
Seq Number: 3043195						
Parameter	Cas Number	Result	RL	Units Analysi	is Date Flag Di	ʻil

1 al alletel	Cas Number	Kesun	KL	Units	Analysis Date	riag	DII	
Chloride	16887-00-6	<4.96	4.96	mg/kg	03.08.18 23.49	U	1	

Analytical Method: TPH by SW801	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 03.05	.18 07.00	E	Basis: We	t Weight	
Seq Number: 3042902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	03.05.18 12.58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	03.05.18 12.58	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	03.05.18 12.58	U	1
Total TPH	PHC635	<14.9	14.9		mg/kg	03.05.18 12.58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	107	%	70-135	03.05.18 12.58		
o-Terphenyl		84-15-1	110	%	70-135	03.05.18 12.58		





LT Environmental, Inc., Arvada, CO

Sample Id:SS3Lab Sample Id:577913-003	Matrix: Soil Date Collected: 02.27.18 10.20	Date Received:03.01.18 13.10 Sample Depth: 12 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3042981	Date Prep: 03.06.18 15.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.07.18 14.39	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.07.18 14.39	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.07.18 14.39	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.07.18 14.39	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.07.18 14.39	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.07.18 14.39	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.07.18 14.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	109	%	70-130	03.07.18 14.39		
1,4-Difluorobenzene		540-36-3	83	%	70-130	03.07.18 14.39		





LT Environmental, Inc., Arvada, CO

Sample Id: SS4 Lab Sample Id: 577913-004		Matrix: Date Collecte	Soil ed: 02.27.18 10.35	Date Receiv Sample Dep	red:03.01.18 13.10 th: 12 In
Analytical Method:Inorganic AnionsTech:OJSAnalyst:OJSSeq Number:3043195	by EPA 300	Date Prep:	03.07.18 13.00	Prep Metho % Moisture Basis:	
Parameter	Cas Number	Result F	RL	Units Analysis	Date Flag Dil

rarameter	Cas Number	Result	KL	Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	<4.90	4.90	mg/kg	03.08.18 23.54	U	1	

Analytical Method: TPH by SW801	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 03.05.	18 07.00	E	Basis: We	t Weight	
Seq Number: 3042902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.05.18 13.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.05.18 13.23	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	03.05.18 13.23	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	03.05.18 13.23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	106	%	70-135	03.05.18 13.23		
o-Terphenyl		84-15-1	108	%	70-135	03.05.18 13.23		





LT Environmental, Inc., Arvada, CO

Sample Id:SS4Lab Sample Id:577913-004	Matrix: Soil Date Collected: 02.27.18 10.35	Date Received:03.01.18 13.10 Sample Depth: 12 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3042981	Date Prep: 03.06.18 15.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.07.18 14.39	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.07.18 14.39	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.07.18 14.39	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	03.07.18 14.39	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.07.18 14.39	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.07.18 14.39	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.07.18 14.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	107	%	70-130	03.07.18 14.39		
1,4-Difluorobenzene		540-36-3	80	%	70-130	03.07.18 14.39		





LT Environmental, Inc., Arvada, CO

Sample Id: SS5 Lab Sample Id: 577913-005		Matrix: Date Collect	Soil ed: 02.27.18 10.45		Date Received:03.01.18 13.10 Sample Depth: 12 In			
Analytical Method: Inorganic Anions by Tech: OJS Analyst: OJS Seq Number: 3043195	y EPA 300	Date Prep:	03.07.18 13.00	Prep Metl % Moistu Basis:	hod: E300P rre: Wet Weight			
Parameter	Cas Number	Result	RL	Units Analys	sis Date Flag	Dil		

i ai ametei	Cas Number	Kesuit	KL	Units	Analysis Date	riag	DII	
Chloride	16887-00-6	<4.96	4.96	mg/kg	03.08.18 23.59	U	1	

Analytical Method: TPH by SW801	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 03.05.	18 07.00	E	Basis: We	t Weight	
Seq Number: 3042902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	03.05.18 13.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	03.05.18 13.48	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	03.05.18 13.48	U	1
Total TPH	PHC635	<14.9	14.9		mg/kg	03.05.18 13.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	03.05.18 13.48		
o-Terphenyl		84-15-1	99	%	70-135	03.05.18 13.48		





LT Environmental, Inc., Arvada, CO

Sample Id:SS5Lab Sample Id:577913-005	Matrix: Soil Date Collected: 02.27.18 10.45	Date Received:03.01.18 13.10 Sample Depth: 12 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3042981	Date Prep: 03.06.18 15.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	03.07.18 14.39	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	03.07.18 14.39	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	03.07.18 14.39	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	03.07.18 14.39	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	03.07.18 14.39	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	03.07.18 14.39	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	03.07.18 14.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	77	%	70-130	03.07.18 14.39		
4-Bromofluorobenzene		460-00-4	107	%	70-130	03.07.18 14.39		





LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample Id:	SS6 577913-006		Matrix: Date Collec	Soil cted: 02.27.18 10.55		Date Received Sample Depth	:03.01.18 13.10 : 12 In	
2	od: Inorganic Anions b	y EPA 300				Prep Method: % Moisture:	E300P	
Analyst: C	SIC		Date Prep:	03.07.18 13.00]	Basis:	Wet Weight	
Seq Number: 3	3043195							
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil

arameter Cas Aumoter Result RL Units Analysis Date	Flag	DII	
Chloride 16887-00-6 <4.93 4.93 mg/kg 03.09.18 00.05	U	1	

Analytical Method: TPH by SW801:	5 Mod				Р	rep Method: TX	005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Pre	p: 03.05.	18 07.00	В	Basis: Wet	Weight	
Seq Number: 3042902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.05.18 14.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	873	15.0		mg/kg	03.05.18 14.16		1
Oil Range Hydrocarbons (ORO)	PHCG2835	68.0	15.0		mg/kg	03.05.18 14.16		1
Total TPH	PHC635	941	15.0		mg/kg	03.05.18 14.16		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	03.05.18 14.16		
o-Terphenyl		84-15-1	104	%	70-135	03.05.18 14.16		





LT Environmental, Inc., Arvada, CO

Sample Id:SS6Lab Sample Id:577913-006	Matrix: Soil Date Collected: 02.27.18 10.55	Date Received:03.01.18 13.10 Sample Depth: 12 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3042981	Date Prep: 03.06.18 15.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	03.07.18 14.39	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	03.07.18 14.39	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	03.07.18 14.39	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	03.07.18 14.39	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	03.07.18 14.39	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	03.07.18 14.39	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	03.07.18 14.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	70-130	03.07.18 14.39		
1,4-Difluorobenzene		540-36-3	74	%	70-130	03.07.18 14.39		



Flagging Criteria



Page 30 of 36

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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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





LT Environmental, Inc.

Hasta la vista 001H/ 2RP-3725

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30	00P	
Seq Number:	3043195			Matrix:	Solid				Date Pre	p: 03.0	07.18	
MB Sample Id:	7640425-1-BLK		LCS Sar	nple Id:	7640425-	1-BKS		LCSI	O Sample	Id: 764	0425-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD I	RPD Limi	t Units	Analysis Date	Flag

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30	E300P			
Seq Number:	3043195			Matrix:	Soil				Date Pre	p: 03.0	07.18			
Parent Sample Id:	577911-001		MS Sar	nple Id:	577911-00	01 S		MSI	O Sample	Id: 577	911-001 SD			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag		
Chloride	199	246	470	110	478	113	90-110	2	20	mg/kg	03.08.18 22:19	Х		

Analytical Method:	Inorganic Anions b	y EPA 300						P	rep Metho	od: E30	E300P			
Seq Number:	3043195			Matrix:	Soil				Date Pr	ep: 03.0	7.18			
Parent Sample Id:	577913-001		MS Sar	nple Id:	577913-00	01 S		MS	D Sample	e Id: 5779	913-001 SD			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag		
Chloride	<4.90	245	263	107	260	106	90-110	1	20	mg/kg	03.08.18 23:33			

Analytical Method:	TPH by S	W8015 M	od						Pi	rep Method	l: TX1	.005P	
Seq Number:	3042902				Matrix:	Solid				Date Prep	p: 03.0	5.18	
MB Sample Id:	7640248-1	-BLK		LCS Sar	nple Id:	7640248-	1-BKS		LCS	D Sample	Id: 7640	0248-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	1000	1030	103	1030	103	70-135	0	35	mg/kg	03.05.18 09:05	
Diesel Range Organics	(DRO)	<15.0	1000	1060	106	1050	105	70-135	1	35	mg/kg	03.05.18 09:05	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		99		1	21		115		70)-135	%	03.05.18 09:05	
o-Terphenyl		100		1	22		113		70)-135	%	03.05.18 09:05	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery 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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LT Environmental, Inc.

Hasta la vista 001H/ 2RP-3725

Analytical Method: Seq Number:	TPH by S 3042902	W8015 M	od		Matrix:	Soil			Prep Method: TX1005P Date Prep: 03.05.18							
Parent Sample Id:	577773-01	1				577773-0	11.5		M	1		773-011 SD				
Parameter	577775-01	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits		RPD Limit		Analysis Date	Flag			
Gasoline Range Hydrocarb	ons (GRO)	<15.0	999	1010	101	1040	104	70-135	3	35	mg/kg	03.05.18 10:22				
Diesel Range Organics	(DRO)	<15.0	999	1060	106	1100	110	70-135	4	35	mg/kg	03.05.18 10:22				
Surrogate					/IS Rec	MS Flag	MSD %Re		-	Limits	Units	Analysis Date				
1-Chlorooctane				1	15		118		7	0-135	%	03.05.18 10:22				
o-Terphenyl				1	07		111		7	0-135	%	03.05.18 10:22				

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3042981 7640285-1-BLK	1B	LCS San	Matrix: nple Id:	Solid 7640285-	1-BKS	Prep Method: SW5030B Date Prep: 03.06.18 LCSD Sample Id: 7640285-1-BSD								
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limi	t Units	Analysis Date	Flag			
Benzene	< 0.00201	0.100	0.0849	85	0.0857	85	70-130	1	35	mg/kg	03.07.18 14:39				
Toluene	< 0.00201	0.100	0.0850	85	0.0856	85	70-130	1	35	mg/kg	03.07.18 14:39				
Ethylbenzene	< 0.00201	0.100	0.0875	88	0.0886	88	70-130	1	35	mg/kg	03.07.18 14:39				
m,p-Xylenes	< 0.00402	0.201	0.171	85	0.173	86	70-130	1	35	mg/kg	03.07.18 14:39				
o-Xylene	< 0.00201	0.100	0.0866	87	0.0876	87	70-130	1	35	mg/kg	03.07.18 14:39				
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			Limits	Units	Analysis Date				
1,4-Difluorobenzene	81		8	35		91		,	70-130	%	03.07.18 14:39				
4-Bromofluorobenzene	108		1	09		113		,	70-130	%	03.07.18 14:39				

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3042981 577912-004	1B	MS San	Matrix: nple Id:		04 S		Prep Metho Date Pre SD Sample	p: 03.0			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0612	61	0.0529	52	70-130	15	35	mg/kg	03.07.18 14:39	Х
Toluene	< 0.00202	0.101	0.0490	49	0.0402	40	70-130	20	35	mg/kg	03.07.18 14:39	Х
Ethylbenzene	< 0.00202	0.101	0.0494	49	0.0398	39	70-130	22	35	mg/kg	03.07.18 14:39	Х
m,p-Xylenes	< 0.00403	0.202	0.0917	45	0.0742	37	70-130	21	35	mg/kg	03.07.18 14:39	Х
o-Xylene	< 0.00202	0.101	0.0518	51	0.0429	42	70-130	19	35	mg/kg	03.07.18 14:39	Х
Surrogate				1S Rec	MS Flag	MSD %Rec		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene			-	71		99		,	70-130	%	03.07.18 14:39	
4-Bromofluorobenzene			1	01		128		,	70-130	%	03.07.18 14:39	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery 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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Relinquished by: 5 Jointe: Signature of this document and relinquishment of samp or any losses or expenses incurred by the Citent If such losses ample. These terms will be enforced unless previously negotia	Relinquished by:	Relinquished by Sampler: SAM	TAT Starts Day received by Lab, if received by 5:00 pm	3 Day EMERGENCY				Samo Decitat	10 Turnaround Time / Busi-	G	00	7	6 556	255 2	4 SS4	3 22 8	2 552	1 55/		No. Field ID / Point of Collection	th	Samplers's Name:	Project Contact: N		3 50 prift Sheet Bld. 1	14/1	Company Name / Branch:	Client / Reporting Information			Stafford, TX (281) 240-4200	Setting the Standard since 1990		
Refinquished by: S1 Difference S1 Difference <	Date Time: A Control By: A Control	BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POS	aived by 5:00 pm			7 Day TAT Level III Std QC+ Forms TRRP Level IV		Data Deliverable Information					620/	2 M				Ch1 DGCC C L Naio	** 9 OH/Zn 00 00 S004 DH HS04 DH	on Collection Number of preserved bottles	30-012-42533	PO Number:	NTO AMENTAL Ja 11 Han 11	Phone No: Invoice To:	#/83 1/WA		Project Name/Nume		WWW.Xenco.com	Lubbock, TX (806) 794-1296 San Antonio, TX (210) 509-3334 Servic	El Paso TV (046) EOS 3140	Page + Of +		
Preserved where applicable On Lee Cooler Temp. Thermo. Corr. Factor	te Time: 128 1570 e Time:	R DELIVERY FED-EX / UPS: Tracking #	Corrected Temp: 5.2	(6-23: +0.2°C)	°C)	Temp: 3, 4 IB ID-B o	Notes:										XXX		TPH	0	DI	200		DW = Drinking Water	S = Soil/Sed/Solid GW = Ground Water	W = Water	Matrix Codes	Analytical Lease	iuote # Xenco Job # //	Phoenix, AZ (480) 355-0900 Service Center- Baton Rouge, LA (832) 742-2440 Service Center- Amarillo, TX (806)678-451			NY Revision 2010	

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Revision 2016.1

Received by OCD: 3/21/2023 7:16:42 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 03/01/2018 01:10:00 PM Temperature Measuring device used : R8 Work Order #: 577913 Sample Receipt Checklist Comments 3.2 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinguished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? No TPH received in bulk jars #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

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 03/01/2018

N/A

Checklist reviewed by: Jession Whamer

#18 Water VOC samples have zero headspace?

Jessica Kramer

Date: 03/01/2018

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

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

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

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

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

COMMENTS

Operator:	OGRID:
BOPCO, L.P.	260737
6401 Holiday Hill Rd	Action Number:
Midland, TX 79707	199058
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)
COMMENTS	

COMMENTS

Created By	Comment	Comment Date
amaxwell	Historical document upload.	3/21/2023

COMMENTS

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Action 199058

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CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	3/21/2023

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Action 199058