

LT Environmental, Inc.

3300 North "A" Street Building 1, Unit 103 Midland, Texas 79705 432.704.5178

October 29, 2019

Mr. Bradford Billings New Mexico Oil Conservation Division 1220 South St. Francis Drive, #3 Santa Fe, New Mexico 87505

RE: Closure Request

Corral Canyon Federal Com #013H Remediation Permit Numbers 2RP-4534 Eddy County, New Mexico

Dear Mr. Billings:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request report detailing site assessment and soil sampling activities at the Corral Canyon Federal Com #013H (Site), located in Unit P, Section 6, Township 25 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacted soil resulting from a crude oil release within lined containment at the Site.

The release is included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the New Mexico Oil Conservation Division (NMOCD) effective November 13, 2018. The purpose of the Compliance Agreement is to ensure reportable releases that occurred prior to August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) as amended on August 14, 2018. The release is categorized as a Tier IV site in the Compliance Agreement, meaning the release occurred prior to August 14, 2018, the effective date of 19.15.29 NMAC; however, remediation was ongoing. Based on the laboratory analytical results for soil samples collected at the Site, XTO is submitting this Closure Request, describing site assessment activities that have occurred and requesting no further action for the release event.

RELEASE BACKGROUND

On December 13, 2017, fluid escaped the side manway plate on a hydraulic fracturing tank. Approximately 24 barrels (bbls) of crude oil were released within the impermeable lined containment around the tanks. The plate was tightened to stop the release. A vacuum truck recovered all 24 bbls of released fluid from within the containment. No fill material was placed in the lined containment. XTO personnel inspected the liner for integrity and verified there was no evidence of a liner breach. XTO reported the release to the NMOCD on a Release Notification





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and Corrective Action Form C-141 (Form C-141) on December 21, 2017, and was assigned Remediation Permit (RP) Number 2RP-4534 (Attachment 1).

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 51 and 100 feet below ground surface (bgs) based on the nearest water well data. The closest permitted water well with depth to water data is New Mexico Office of the Sate Engineer (NM OSE) Well #C01880, located approximately 3,385 feet northwest of the Site. According to the NM OSE database, the well was installed and depth to water was measured in 1979. Based on the age of the well, LTE field personnel field-verified the presence or absence of the well. The well could not be located within an approximate 1,000 foot radius of the coordinates provided by the NM OSE. As part of remediation efforts at a nearby site, Corral Canyon #1H flow line (2RP-5201), LTE installed six monitoring wells (MW01 through MW06) to assess depth to groundwater. The groundwater monitoring wells are located approximately 5,750 feet east of the Site. Static water level measured in monitoring wells MW01 through MW06 on September 13, 2019, ranged from 57.26 feet bgs in monitoring well MW04 to 62.29 feet bgs in monitoring well MW02 with an average depth to water of 58.80 feet bgs. The depth to water measurements are provided in the table below and the location of the monitoring wells is identified on Figure 1.

MONITORING WELL INFORMATION

Sample Name	Total Depth (feet bgs)	Depth to Water (feet bgs)	Sample Date
MW01	68.44	58.17	09/13/2019
MW02	68.10	62.29	09/13/2019
MW03	75.58	58.30	09/13/2019
MW04	69.08	57.26	09/13/2019
MW05	64.80	58.54	09/13/2019
MW06	64.11	58.25	09/13/2019

Notes:

bgs - below ground surface

Based on depth to water measured recently in the nearby monitoring wells, depth to water at the Site is estimated to be between 51 and 100 feet bgs. The closest continuously flowing water or significant watercourse to the Site is the Pecos River, located approximately 2,195 feet west-northwest 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-





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year floodplain or overlying a subsurface mine. The Site is not located in an unstable geological area, such as karst formations.

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; andChloride: 10,000 mg/kg.

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On October 18, 2019, LTE personnel inspected the Site to evaluate the release extent and assess the soil within the release area. Potholes were advanced via track-hoe at seven locations beneath and around the former tank containment location to assess for potential soil impacts. Potholes PH01 through PH07 were advanced to a depth of 4 feet bgs. Delineation soil samples were collected from each pothole from depths ranging from 0.5 feet to 4 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 2. The delineation soil sample locations were mapped utilizing a handheld Global Positing System (GPS) unit and are depicted on Figure 2.

The delineation 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 shipped at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Midland, Texas, for analysis of BTEX following United States Environmental Protection Agency (USEPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following USEPA Method 8015M/D; and chloride following USEPA Method 300.0.

Photographic documentation was conducted during the Site visit. Photographs are included in Attachment 3.





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ANALYTICAL RESULTS

Laboratory analytical results indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in all delineation soil samples collected from potholes PH01 through PH07. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Potholes were advanced at seven locations beneath and around the former tank containment release area to assess for potential soil impacts as a result of the December 13, 2017, crude oil release. Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH07 indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and no further remediation was required.

The release occurred within lined containment and all released fluids were recovered during initial response activities. Based on visual observations, field screening, and laboratory analytical results, no impacted soil was identified as a result of the historical release. XTO requests no further action for RP Number 2RP-4534. An updated NMOCD Form C-141 is included as Attachment 1.

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

Sincerely,

LT ENVIRONMENTAL, INC.

née Cale

Aimee Cole

Project Environmental Scientist

Ushley L. Ager, P.G.

Senior Geologist

cc: Kyle I

Kyle Littrell, XTO

Mike Bratcher, NMOCD

Ryan Mann, State Land Office





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Attachments:

Figure 1 Site Location Map

Figure 2 Delineation Soil Sample Locations

Table 1 Soil Analytical Results

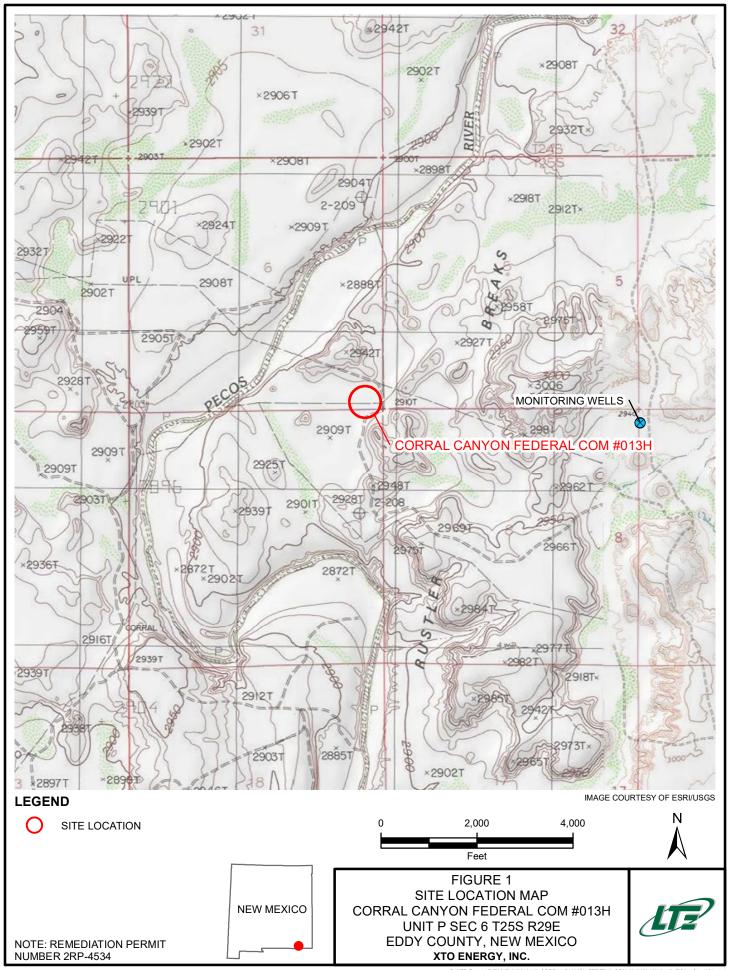
Attachment 1 Initial/Final NMOCD Form C-141 (2RP-4534)

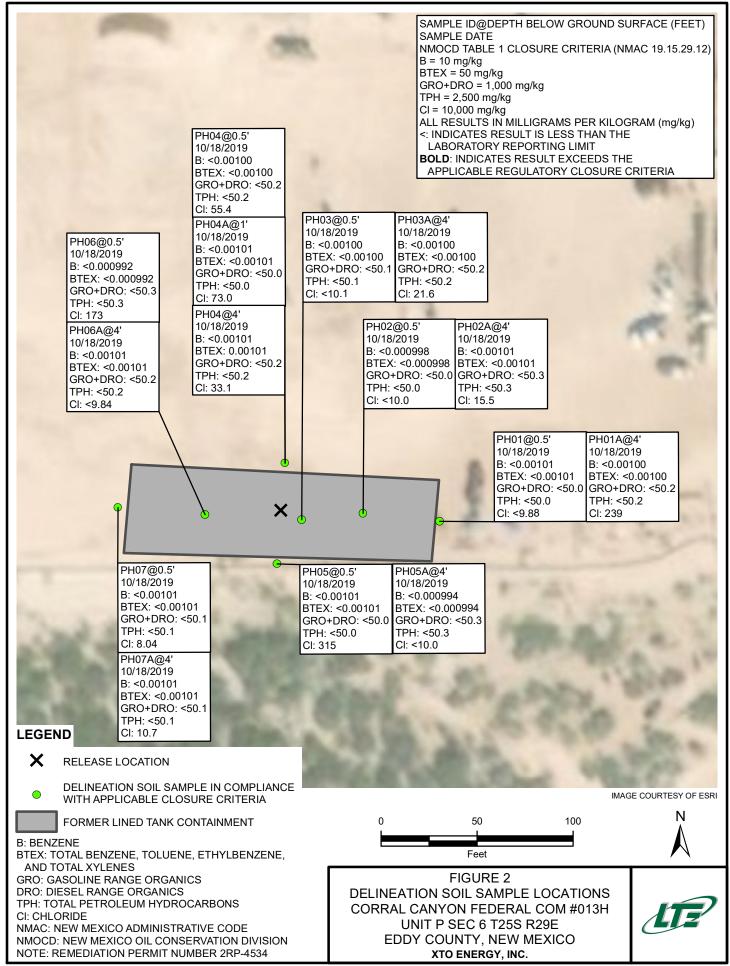
Attachment 2 Lithologic/Soil Sample Logs

Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports







Received by OCD: 5/19/2020 1:38:59 PM

TABLE 1 **SOIL ANALYTICAL RESULTS**

CORRAL CANYON FEDERAL COM #013H REMEDIATION PERMIT NUMBER 2RP-4534 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

122 8:36	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)
54	PH01	0.5	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.0	<50.0	<50.0	<50.0	<50.0	<9.88
	PH01A	4	10/18/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.2	<50.2	<50.2	<50.2	<50.2	239
AM	PH02	0.5	10/18/2019	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	<50.0	<50.0	<50.0	<50.0	<50.0	<10.0
	PH02A	4	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.3	<50.3	<50.3	<50.3	<50.3	15.5
	PH03	0.5	10/18/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.1	<50.1	<50.1	<50.1	<50.1	<10.1
	PH03A	4	10/18/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.2	<50.2	<50.2	<50.2	<50.2	21.6
	PH04	0.5	10/18/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.2	<50.2	<50.2	<50.2	<50.2	55.4
	PH04A	1	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.0	<50.0	<50.0	<50.0	<50.0	73.0
	PH04B	4	10/18/2019	< 0.00101	< 0.00101	< 0.00101	< 0.00101	< 0.00101	<50.2	<50.2	<50.2	<50.2	<50.2	33.1
	PH05	0.5	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.0	<50.0	<50.0	<50.0	<50.0	315
	PH05A	4	10/18/2019	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<50.3	<50.3	<50.3	<50.3	<50.3	<10.0
	PH06	0.5	10/18/2019	<0.000992	<0.000992	<0.000992	<0.000992	<0.000992	<50.3	<50.3	<50.3	<50.3	<50.3	173
	PH06A	4	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.2	<50.2	<50.2	<50.2	<50.2	<9.84
	PH07	0.5	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.1	<50.1	<50.1	<50.1	<50.1	8.04
	PH07A	4	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.1	<50.1	<50.1	<50.1	<50.1	10.7
	NMOCD	Table 1 Closur	e Criteria	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylene NMAC - New Mexico Administrative Code

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics

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

NM OIL CONSERVATION

NM OIL CONSERVATION

District I 1625 N. French Dr., Hobbs, NM 88240

ARTESIA DISTRICT State of New Mexico APTES'S DISTRICT

Form C-141 Revised April 3, 2017

District II 811 S. First St., Artesia, NM 88210

DEC 2 1 20 Phergy Minerals and Natural Resources 2 1 2017

District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division

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

1220 South St. Francis Dr. RECEIVED

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			Rele	ease Notific	cation	and Co	rrectiv	e Action	1			
MABI	13613	6697				OPERA'	TOR		Initia	l Report		Final Report
Name of C	ompany: X	TO Energy		53 80		Contact: K						
		AMMINISTRATION OF THE PARTY OF		bad, N.M. 8822		Telephone 1						
Facility Na	me: Corrai	Canyon Fe	derai Con	n #013H		Facility Typ	e: Explor	ation and Pr	roduction			
Surface Ov	vner: State	of NM		Mineral (Owner:	State of NI	И		API No	: 30-015-	43493	
				LOCA	ATION	OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from	1	West Line	County		
Р	6	258	29E	140	South		385	East		Eddy		
			Latitude	32.152439°	Lo	ngitude	-104.01638	89° NA	D83			
				NAT	TURE	OF REL	EASE					
Type of Rele	ease	Crude	Oil			Volume of	Release	24 bbls	Volume R	tecovered	24 bbl	3
Source of Re	elease	Frac Tank					lour of Occu			Hour of Dis	covery	
Was Immedi	iate Notice G	iven?				12/13/2017 If YES, To	7 time unkn	own	12/13/201	7 lam		
Was Hillied	iate Notice o		Yes [No 🛛 Not R	equired	N/A	WHOIII:					
By Whom?						Date and I	lour: N/A					
Was a Water	rcourse Reach		. v 17	l No.			olume Impac	ting the Wat	ercourse.			
			Yes 🗵			N/A						
If a Waterco N/A	urse was Imp	pacted, Descr	ibe Fully.	•								
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	ea Affected a											
The leak affe	ected the tem	porary imper	meable lir	ned containment s maintenance, and	surroundi inspectio	ing the frac to	ınks. No fil ite equipme	l material wa nt and faciliti	s located in: ies visually	side contain inspected th	ment. le contr	A XTO EHS
verified ther	e was no visu	ial evidence	of a liner b	reach. All free-s	tanding l	liquids were	recovered from	om the contain	inment. The	e frac job is	anticip	ated to last
another mon	th. Once cor	npleted, the	frac tanks	will be removed a	and the c	ontainment v	vill be power	r washed and	removed fr	om location	1.	
I hereby cert	tify that the it	nformation g	iven above	is true and comp	olete to th	ne best of my	knowledge	and understa	nd that purs	uant to NM	OCD r	ules and
				nd/or file certain r ce of a C-141 rep								
should their	operations ha	ave failed to	acceptant adequately	investigate and i	ore by the remediate	e contaminat	ion that pose	e a threat to g	round water	r, surface w	ater, hu	man health
or the enviro	nment. In ac	ddition, NM(OCD accep	otance of a C-141	report de	oes not reliev	e the operat	or of respons	sibility for c	ompliance v	with an	y other
lederal, state	, or local law	vs and/or reg	ulations.				OII C	ONSERV	ATION	DIVISIO	N	
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E-mail Addr	ress: Kyle	Littrell@xt	oenergy.co)m		Conditions o	Charles Co.	drad	(Attached	LXX	100
Date: 12	/21/2017		Phone:	432-221-7331	1	SCC.	wran		`	$\mid \lambda k$	W-4	3 <i>3</i> 4

* Attach Additional Sheets If Necessary

12/22/17 AB

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

Responsible Party: XTO Energy, Inc

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	2RP-4534
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID: 5380

Contact Nam	Contact Name: Kyle Littrell Co			Contact T	Contact Telephone: (432)-221-7331			
Contact email: Kyle_Littrell@xtoenergy.com				Incident #	Incident #: 2RP-4534			
Contact mail NM 88220	ing address:	522 W. Mermod,	Suite 704 Carlsba	ad,				
			Location	of Release S	ource			
Latitude N 32	2.152439		(NAD 83 in de	Longitude cimal degrees to 5 deci	W -104.016389 mal places)			
Site Name: C	orral Canyo	n Federal Com #01	3Н	Site Type:	Production Well Facility			
Date Release	Discovered:	12/13/2017		API# (if ap	plicable): 30-015-43493			
Unit Letter	Section	Township	Range	Cou	nty			
Р	6	25S	29E	Edd	<u> </u>			
Nature and Volume Material(s) Released (Select all that apply and attach calculations or sp ☐ Crude Oil Volume Released (bbls): 24 ☐ Produced Water Volume Released (bbls):								
Produced	water	Is the concentrat	ion of dissolved c	chloride in the	Yes No			
Condensa	ıte	volume Release			Volume Recovered (bbls)			
Natural G	ias	Volume Release	d (Mcf)		Volume Recovered (Mcf)			
Other (de	scribe)	Volume/Weight Released (provide units)			Volume/Weight Recovered (provide units)			
	d from the fr	ac tank side manwing fluids were rec			orary impermeable lined containn	nent surrounding the		

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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	N/A
19.15.29.7(A) NMAC?	
☐ Yes ⊠ No	
If YES, was immediate no N/A	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.
The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described N/A	d above have <u>not</u> been undertaken, explain why:
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
, ,	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o and/or regulations.	f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Kylo	e Littrell Title: _SH&E Supervisor
Signature:	Date:
email: <u>Kyle Littrell@xto</u>	
OCD Only	
Received by:	Date:
,	

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Incident ID			
District RP	2RP-4534		
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>51-100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well in Field data 	ls.
☐ Data table of soil contaminant concentration data ☐ Depth to water determination	
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release	
 ☑ Boring or excavation logs ☑ Photographs including date and GIS information 	
☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name: Kyle Littrell	Title: SH&E Supervisor						
Signature: Ma Hand	Date:10-29-2019						
email: Kyle Littrell@xtoenergy.com	Telephone: (432)-221-7331						
OCD Only							
Received by:	Date:						

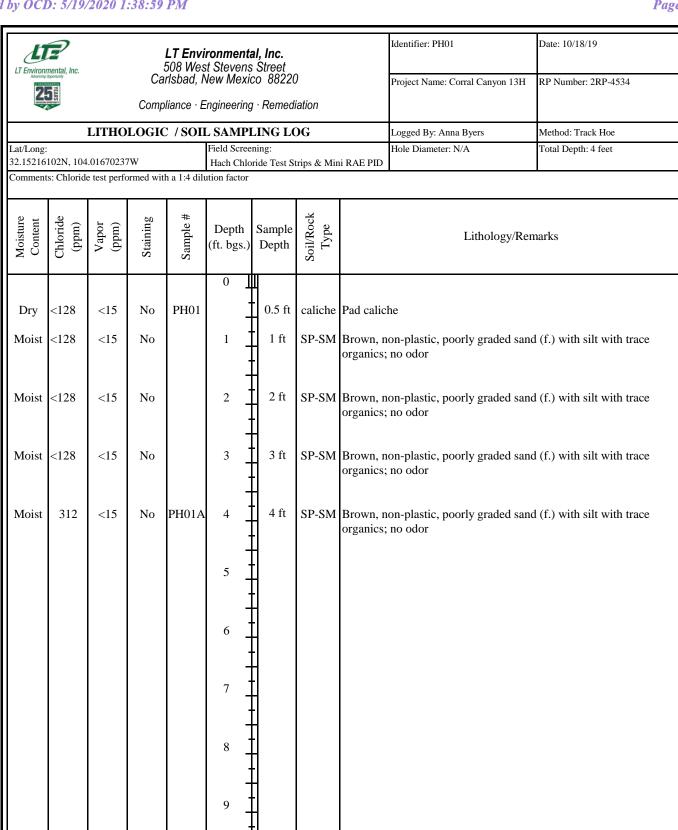
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Application ID		

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following is	tems must be incl	luded in the closure report.							
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 ODG	C District office m	nust be notified 2 days prior to final sampling)							
□ Description of remediation activities									
I hereby certify that the information given above is true and comple 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 rephuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the O	n release notificat a C-141 report by mediate contamina a C-141 report do ations. The responditions that exist	ions and perform corrective actions for releases which we the OCD does not relieve the operator of liability ation that pose a threat to groundwater, surface water, es not relieve the operator of responsibility for asible party acknowledges they must substantially and prior to the release or their final land use in							
Printed Name:Kyle Littrell	Title:	SH&E Supervisor							
Signature:	Date:10-29	9-2019							
email:Kyle Littrell@xtoenergy.com	Telephone:	432-221-7331							
OCD Only									
Received by: ——OCD	Date:	5/19/2020							
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	water, human heal								
Closure Approved by: Ashley Maxwell Printed Name: Ashley Maxwell	Date: _	9/14/2022							
Printed Name:Ashley Maxwell	_ Title:	Environmental Specialist							



10

12



Project Name: Corral Canyon 13H RP Number: 2RP-4534

Date: 10/18/19

Method: Track Hoe

 $Compliance \cdot \textit{Engineering} \cdot \textit{Remediation}$

 ${\bf LITHOLOGIC\ /\, SOIL\ SAMPLING\ LOG}$

Field Screening: Hole Diameter: N/A Total Depth: 4 feet

Identifier: PH02

Logged By: Anna Byers

	.01683086				fide Test Si	trips & Min	I KAE I ID
s: Chloride	e test perfc	ormed wit	h a 1:4 dilu	ition factor			<u> </u>
Chloride (ppm)	Vapor (ppm)	Staining	Sample #			Soil/Rock Type	Lithology/Remarks
				0	H		
<128	<15	No	PH02	4	0.5 ft	caliche	Pad caliche
<128	<15	No		1 -	1 ft		Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
<128	<15	No		2	2 ft		Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
<128	<15	No		3	3 ft		Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
<128	<15	No	PH02A	4 _	4 ft		Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
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				9		'	
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				10	- 		
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				11] [
, ,	1 1			12	- - -		
4	<128 <128 <128	Section Property Property	Staining Staining	Sample S	<128 <15 No PH02 <128 <15 No PH02 <128 <15 No 2 <128 <15 No PH02A <12 <128 <15 No PH02A <4 <15 No PH02A <6 <6 <7 <8 <9	Sample Depth Dep	Photon Photo Pho



Lat/Long:

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

RP Number: 2RP-4534 Project Name: Corral Canyon 13H

Date: 10/18/19

 $Compliance \cdot \textit{Engineering} \cdot \textit{Remediation}$

 ${\bf LITHOLOGIC\ /\, SOIL\ SAMPLING\ LOG}$

Logged By: Anna Byers Method: Track Hoe Field Screening: Hole Diameter: N/A Total Depth: 4 feet

Identifier: PH03

32.152163					Hach Chlo	ride Test St	trips & Mir	i RAE PID
Comment	Comments: Chloride test performed with a 1:4 dilu			ution factor				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			
Dry	<128	<15	No	PH03	_	0.5 ft	caliche	Pad caliche
Moist	<128	<15	No		1 _	1 ft	SP-SM	Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
Moist	<128	<15	No		2	2 ft	SP-SM	Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
Moist	<128	<15	No		3	3 ft	SP-SM	Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
Moist	<128	<15	No	РН03А	4 _	4 ft	SP-SM	Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
					5 _	-		
					6			
					7	<u>-</u>		
					8 _	-		
					9] - -		
					10	<u>-</u>		
					11	-		
					12	-		



Project Name: Corral Canyon 13H

Date: 10/18/19

RP Number: 2RP-4534

Total Depth: 4 feet

Identifier: PH04

Compliance · Engineering · Remediation

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: Anna Byers Method: Track Hoe

Lat/Long: Field Screening: Hole Diameter: N/A 32.15224518N, 104.01696218W Hach Chloride Test Strips & Mini RAE PID

32.152245							trips & Mir	ni RAE PID
Comments	s: Chlorid	e test perfo	ormed wit	ith a 1:4 dilu	ution factor	·		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			
Dry	<128	<15	No	PH04	_	0.5 ft	caliche	Pad caliche
Moist	212	<15	No	PH04A	1 <u>-</u> -	1 ft	SP-SM	Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
Moist	212	<15	No		2 _	2 ft	SP-SM	Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
Moist	<128	<15	No		3	3 ft		Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
Moist	<128	<15	No	PH04B	4 _	4 ft	SP-SM	Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
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Date: 10/18/19

RP Number: 2RP-4534

 $Compliance \cdot \textit{Engineering} \cdot \textit{Remediation}$

Field Screening:

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: Anna Byers Method: Track Hoe
Hole Diameter: N/A Total Depth: 4 feet

Project Name: Corral Canyon 13H

Identifier: PH05

		.01697638 e test perfo		th a 1:4 dilu			trips & Mir	ni RAE PID
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0	Ц		
Dry	396	<15	No	PH05	_	0.5 ft	caliche	Pad caliche
Moist	358	<15	No		1 _	1 ft	SP-SM	Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
Moist	312	<15	No		2	2 ft	SP-SM	Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
Moist	<128	<15	No		3	3 ft	SP-SM	Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
Moist	<128	<15	No	PH05A	4	4 ft	SP-SM	Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
					5	- - -		
					6			
					- -	- -		
					7 _	[]		
					8 _	 - -		
					- -	- - -		
					9 -	-		
					10			
					- -	- -		
					11			
					12	-		



Identifier: PH06

Logged By: Anna Byers

Compliance · Engineering · Remediation

Project Name: Corral Canyon 13H RP Number: 2RP-4534

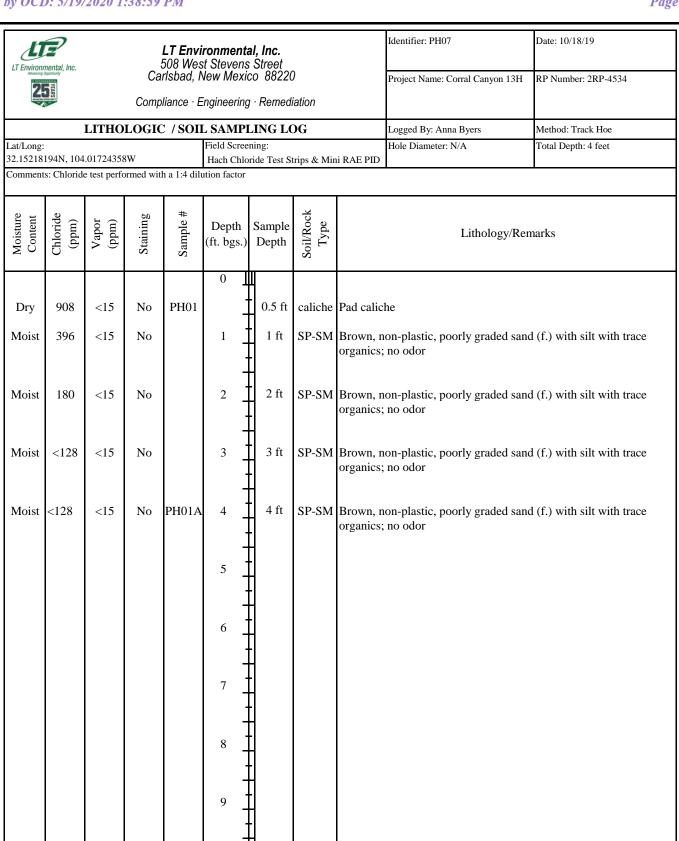
Date: 10/18/19

Method: Track Hoe

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long: Field Screening: Hole Diameter: N/A Total Depth: 4 feet

Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
Dry	488	<15	No	PH06	0]	0.5 ft	caliche	Pad caliche
Moist	358	<15	No	11100	1 _	1 ft		Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
Moist	156	<15	No		2	2 ft	SP-SM	Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
Moist	<128	<15	No		3	3 ft	SP-SM	Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
Moist	128	<15	No	PH06A	4 _	4 ft	SP-SM	Brown, non-plastic, poorly graded sand (f.) with silt with trace organics; no odor
					5	-		
					6	-		
					7 _	- - -		
					8			
					9	- - -		
					10			
					11	 -		
					12	H		



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12





View facing east of the former tank containment release area.

Project: 012918117	XTO Energy, Inc. Corral Canyon Federal Com #013H	ITE
October 18, 2019	Photographic Log	Advancing Opportunity



View facing southwest of the former tank containment release area.

Project: 012918117	XTO Energy, Inc. Corral Canyon Federal Com #013H	LIZ
October 18, 2019	Photographic Log	Advancing Opportunity



View facing west of the former tank containment release area.

Project: 012918117	XTO Energy, Inc. Corral Canyon Federal Com #013H	
October 18, 2019	Photographic Log	Advancing Opportunity



Analytical Report 640495

for

LT Environmental, Inc.

Project Manager: Aimee Cole Corral Canyon 13H 012918117 22-OCT-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142), North Carolina (681)

> 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-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)



22-OCT-19

Project Manager: Aimee Cole LT Environmental, Inc. 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): 640495

Corral Canyon 13H

Project Address: Rural Eddy County

Aimee Cole:

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) 640495. 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. 640495 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vermer

Project Assistant

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

Certified and approved by numerous States and Agencies.

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

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



Sample Cross Reference 640495

LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	10-18-19 09:20	0.5 ft	640495-001
PH01A	S	10-18-19 09:40	4 ft	640495-002
PH02	S	10-18-19 10:05	0.5 ft	640495-003
PH02A	S	10-18-19 10:15	4 ft	640495-004
PH03	S	10-18-19 10:30	0.5 ft	640495-005
PH03A	S	10-18-19 10:40	4 ft	640495-006
PH04	S	10-18-19 10:55	0.5 ft	640495-007
PH04A	S	10-18-19 10:57	1 ft	640495-008
PH04B	S	10-18-19 11:05	4 ft	640495-009
PH05	S	10-18-19 11:15	0.5 ft	640495-010
PH05A	S	10-18-19 11:25	4 ft	640495-011
PH06	S	10-18-19 11:37	0.5 ft	640495-012
PH06A	S	10-18-19 11:50	4 ft	640495-013
PH07	S	10-18-19 12:10	0.5 ft	640495-014
PH07A	S	10-18-19 12:20	4 ft	640495-015

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Corral Canyon 13H

 Project ID:
 012918117
 Report Date:
 22-OCT-19

 Work Order Number(s):
 640495
 Date Received:
 10/21/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3104972 TPH by SW8015 Mod

Surrogate 1-Chlorooctane, Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is

suspected; data confirmed by re-analysis.

Samples affected are: 640495-005.

Batch: LBA-3104975 BTEX by EPA 8021B

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

Batch: LBA-3104977 BTEX by EPA 8021B

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



Certificate of Analysis Summary 640495

LT Environmental, Inc., Arvada, CO

Project Name: Corral Canyon 13H

Date Received in Lab: Mon Oct-21-19 09:10 am

Report Date: 22-OCT-19 Project Manager: Jessica Kramer

Project Id: 012918117 **Contact:** Aimee Cole **Project Location:** Rural Eddy County

	Lab Id:	640495-001		640495-002		640495-003		640495-004		640495-005		640495-006	
Analysis Requested													
	Field Id:	PH01		PH01A		PH02		PH02A		PH03		PH03A	
Times, see Times, con	Depth:	0.5- ft		4- ft		0.5- ft		4- ft		0.5- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-18-19 09:20		Oct-18-19	09:40 Oct-18		10:05	Oct-18-19 10:15		Oct-18-19 10:30		Oct-18-19 10:40	
BTEX by EPA 8021B	Extracted:	Oct-21-19 10:10 Oct-21-19 20:10		Oct-21-19 10:10 Oct-21-19 20:31		Oct-21-19 10:10 Oct-21-19 20:51		Oct-21-19 10:10 Oct-21-19 21:11		Oct-21-19 10:10 Oct-21-19 21:32		Oct-21-19 10:10 Oct-21-19 21:52	
	Analyzed:												
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00101	0.00101	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100	< 0.00100	0.00100
Toluene		< 0.00101	0.00101	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100	< 0.00100	0.00100
Ethylbenzene		< 0.00101	0.00101	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100	< 0.00100	0.00100
m,p-Xylenes		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200
o-Xylene		< 0.00101	0.00101	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100	< 0.00100	0.00100
Total Xylenes		< 0.00101	0.00101	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100	< 0.00100	0.00100
Total BTEX		< 0.00101	0.00101	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100	< 0.00100	0.00100
Chloride by EPA 300	Extracted:	Oct-21-19 17:10 Oct-21-19 17:40		Oct-21-19 17:10 Oct-21-19 17:59		Oct-21-19 17:10 Oct-21-19 18:06		Oct-21-19 17:10 Oct-21-19 18:53		Oct-21-19 17:10 Oct-21-19 18:59		Oct-21-19 17:10	
	Analyzed:											Oct-21-19 19:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<9.88	9.88	239	9.86	<10.0	10.0	15.5	10.0	<10.1	10.1	21.6	10.1
TPH by SW8015 Mod	Extracted:			** ** ** Oct-21-19 13:32		Oct-21-19 14:00 Oct-21-19 14:32		Oct-21-19 14:00 Oct-21-19 14:52		Oct-21-19 14:00 Oct-21-19 15:11		Oct-21-19 14:00 Oct-21-19 15:11	
	Analyzed:												
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	< 50.2	50.2	< 50.0	50.0	<50.3	50.3	< 50.1	50.1	< 50.2	50.2
Diesel Range Organics (DRO)		< 50.0	50.0	< 50.2	50.2	< 50.0	50.0	< 50.3	50.3	< 50.1	50.1	< 50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	< 50.2	50.2	< 50.0	50.0	< 50.3	50.3	< 50.1	50.1	< 50.2	50.2
Total GRO-DRO		<50.0	50.0	< 50.2	50.2	< 50.0	50.0	<50.3	50.3	< 50.1	50.1	< 50.2	50.2
Total TPH		<50.0	50.0	<50.2	50.2	< 50.0	50.0	< 50.3	50.3	< 50.1	50.1	< 50.2	50.2

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

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

Jessica Weamer

Jessica Kramer Project Assistant



Certificate of Analysis Summary 640495

LT Environmental, Inc., Arvada, CO

Project Name: Corral Canyon 13H

Date Received in Lab: Mon Oct-21-19 09:10 am

Report Date: 22-OCT-19 Project Manager: Jessica Kramer

Project Id: 012918117 **Contact:** Aimee Cole

Project Location: Rural Eddy County

	Lab Id:	640495-007		640495-0	800	640495-009		640495-010		640495-011		640495-012	
Analysis Requested	Field Id:	PH04		PH04A		PH04B		PH05		PH05A		PH06	
	Depth:	0.5- ft		1- ft		4- ft		0.5- ft		4- ft		0.5- ft	
	Matrix:	SOIL		SOIL									
	Sampled:	Oct-18-19 10:55		Oct-18-19 10:57		Oct-18-19 11:05		Oct-18-19 11:15		Oct-18-19 11:25		Oct-18-19 11:37	
BTEX by EPA 8021B	Extracted:	Oct-21-19 10:10		Oct-21-19 14:10		Oct-21-19 14:10		Oct-21-19 14:10		Oct-21-19 14:10		Oct-21-19 14:10	
Anai		Oct-21-19 22:13		Oct-22-19 01:44		Oct-22-19 02:04		Oct-22-19 02:25		Oct-22-19 02:45		Oct-22-19 03:06	
	Units/RL:	mg/kg	RL	mg/kg	RL								
Benzene		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101	< 0.00101	0.00101	< 0.000994	0.000994	< 0.000992	0.000992
Toluene		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101	< 0.00101	0.00101	< 0.000994	0.000994	< 0.000992	0.000992
Ethylbenzene		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101	< 0.00101	0.00101	< 0.000994	0.000994	< 0.000992	0.000992
m,p-Xylenes		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00198	0.00198
o-Xylene		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101	< 0.00101	0.00101	< 0.000994	0.000994	< 0.000992	0.000992
Total Xylenes		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101	< 0.00101	0.00101	< 0.000994	0.000994	< 0.000992	0.000992
Total BTEX		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101	< 0.00101	0.00101	< 0.000994	0.000994	< 0.000992	0.000992
Chloride by EPA 300	Extracted:	Oct-21-19 17:10 Oct-21-19 19:27		Oct-21-19 17:10 Oct-21-19 19:33		Oct-21-19 17:10 Oct-21-19 19:39		Oct-21-19 17:10 Oct-21-19 19:45		Oct-21-19 17:10 Oct-21-19 19:52		Oct-21-19 17:10	
	Analyzed:											Oct-21-19 20:10	
	Units/RL:	mg/kg	RL	mg/kg	RL								
Chloride		55.4	9.98	73.0	9.92	33.1	10.1	315	10.0	<10.0	10.0	173	49.4
TPH by SW8015 Mod	Extracted:	Oct-21-19 14:00		Oct-21-19 14:00									
	Analyzed:	Oct-21-19 15:31		Oct-21-19 15:31		Oct-21-19 15:51		Oct-21-19 15:51		Oct-21-19 16:11		Oct-21-19 16:11	
	Units/RL:	mg/kg	RL	mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	< 50.0	50.0	< 50.2	50.2	< 50.0	50.0	<50.3	50.3	<50.3	50.3
Diesel Range Organics (DRO)		<50.2	50.2	< 50.0	50.0	<50.2	50.2	<50.0	50.0	<50.3	50.3	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	< 50.0	50.0	< 50.2	50.2	< 50.0	50.0	<50.3	50.3	<50.3	50.3
Total GRO-DRO		<50.2	50.2	< 50.0	50.0	< 50.2	50.2	< 50.0	50.0	<50.3	50.3	<50.3	50.3
Total TPH		< 50.2	50.2	< 50.0	50.0	< 50.2	50.2	< 50.0	50.0	< 50.3	50.3	< 50.3	50.3

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Jessica Kramer Project Assistant

Certificate of Analysis Summary 640495

LT Environmental, Inc., Arvada, CO Project Name: Corral Canyon 13H

Date Received in Lab: Mon Oct-21-19 09:10 am

Report Date: 22-OCT-19 **Project Manager:** Jessica Kramer

Project Id: 012918117 Contact: Aimee Cole

Project Location: Rural Eddy County

			1				1		
	Lab Id:	640495-0	13	640495-	014	640495-0)15		
Analysis Requested	Field Id:	PH06A		PH07	'	PH07A	A		
Analysis Requesieu	Depth:	4- ft		0.5- f	t	4- ft			
	Matrix:	SOIL		SOIL	,	SOIL			
	Sampled:	Oct-18-19 1	1:50	Oct-18-19	12:10	Oct-18-19 12:20			
BTEX by EPA 8021B	Extracted:	Oct-21-19 1	4:10	Oct-21-19	Oct-21-19 14:10		14:10		
	Analyzed:	Oct-22-19 (03:26	Oct-22-19	03:46	Oct-22-19	04:07		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00101	0.00101	< 0.00101	0.00101	< 0.00101	0.00101		
Toluene		< 0.00101	0.00101	< 0.00101	0.00101	< 0.00101	0.00101		
Ethylbenzene		< 0.00101	0.00101	< 0.00101	0.00101	< 0.00101	0.00101		
n,p-Xylenes		< 0.00201	0.00201	< 0.00201	0.00201	< 0.00202	0.00202		
o-Xylene		< 0.00101	0.00101	< 0.00101	0.00101	< 0.00101	0.00101		
Total Xylenes		< 0.00101	0.00101	< 0.00101	0.00101	< 0.00101	0.00101		
Total BTEX		< 0.00101	0.00101	< 0.00101	0.00101	< 0.00101	0.00101		
Chloride by EPA 300	Extracted:	Oct-21-19 1	7:10	Oct-21-19	17:10	Oct-21-19	17:10		
	Analyzed:	Oct-21-19 2	20:17	Oct-21-19	20:33	Oct-21-19	20:39		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		<9.84	9.84	8.04	0.501	10.7	10.0		
TPH by SW8015 Mod	Extracted:	Oct-21-19 1	4:00	Oct-21-19	14:00	Oct-21-19	14:00		
	Analyzed:	Oct-21-19 1	6:31	Oct-21-19	16:51	Oct-21-19	16:51		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	< 50.1	50.1	< 50.1	50.1		
Diesel Range Organics (DRO)		<50.2	50.2	< 50.1	50.1	< 50.1	50.1		
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	< 50.1	50.1	< 50.1	50.1		
Total GRO-DRO		<50.2	50.2	< 50.1	50.1	<50.1	50.1		
Total TPH		< 50.2	50.2	< 50.1	50.1	< 50.1	50.1		

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

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Jessica Kramer

Jessica Kramer Project Assistant



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH01 Matrix: Soil

Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-001 Date Collected: 10.18.19 09.20 Sample Depth: 0.5 ft

Prep Method: E300P

% Moisture:

Analyst: MAB Date Prep: 10.21.19 17.10 Basis: Wet Weight

Seq Number: 3104961

Tech:

Analytical Method: Chloride by EPA 300

MAB

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U 10.21.19 17.40 < 9.88 9.88 mg/kg 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 10.21.19 08.50 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.21.19 13.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.21.19 13.32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.21.19 13.32	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	10.21.19 13.32	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.21.19 13.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	84	%	70-135	10.21.19 13.32		
o-Terphenyl		84-15-1	81	%	70-135	10.21.19 13.32		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH01 Matrix: Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-001 Date Collected: 10.18.19 09.20 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

% Moisture:

Analyst: MAB Date Prep: 10.21.19 10.10 Basis: Wet Weight

Seq Number: 3104975

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	10.21.19 20.10	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	10.21.19 20.10	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	10.21.19 20.10	U	1
m,p-Xylenes	179601-23-1	< 0.00202	0.00202		mg/kg	10.21.19 20.10	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	10.21.19 20.10	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	10.21.19 20.10	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	10.21.19 20.10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	114	%	70-130	10.21.19 20.10		
1,4-Difluorobenzene		540-36-3	104	%	70-130	10.21.19 20.10		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Soil

Matrix: Sample Id: PH01A

Date Received:10.21.19 09.10

Lab Sample Id: 640495-002 Date Collected: 10.18.19 09.40 Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

Analyst: MAB Date Prep: 10.21.19 17.10

Basis: Wet Weight

Seq Number: 3104961

MAB

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	239	9.86	mg/kg	10.21.19 17.59		1

Analytical Method: TPH by SW8015 Mod

DTH

Prep Method: SW8015P

% Moisture:

DTH Tech:

Analyst:

10.21.19 08.50 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	10.21.19 13.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	10.21.19 13.32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	10.21.19 13.32	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	10.21.19 13.32	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	10.21.19 13.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	81	%	70-135	10.21.19 13.32		
o-Terphenyl		84-15-1	80	%	70-135	10.21.19 13.32		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Basis:

Wet Weight

Sample Id: PH01A Matrix: Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-002 Date Collected: 10.18.19 09.40 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 10.21.19 10.10 Seq Number: 3104975

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100	mg/kg	10.21.19 20.31	U	1
Toluene	108-88-3	< 0.00100	0.00100	mg/kg	10.21.19 20.31	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100	mg/kg	10.21.19 20.31	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201	mg/kg	10.21.19 20.31	U	1
o-Xylene	95-47-6	< 0.00100	0.00100	mg/kg	10.21.19 20.31	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100	mg/kg	10.21.19 20.31	U	1
Total BTEX		< 0.00100	0.00100	mg/kg	10.21.19 20.31	U	1
			0/.				

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	10.21.19 20.31	
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.21.19 20.31	



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: Matrix: Soil **PH02**

Date Received:10.21.19 09.10

Lab Sample Id: 640495-003 Date Collected: 10.18.19 10.05 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB

Date Prep: 10.21.19 17.10 Basis: Wet Weight

Seq Number: 3104961

Parameter	Cas Number	Result	RL	Uni	s Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/l	g 10.21.19 18.06	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech:

DTH Analyst:

10.21.19 14.00 Basis: Wet Weight Date Prep:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.21.19 14.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.21.19 14.32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.21.19 14.32	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	10.21.19 14.32	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.21.19 14.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	77	%	70-135	10.21.19 14.32		
o-Terphenyl		84-15-1	75	%	70-135	10.21.19 14.32		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH02 Matrix: Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-003 Date Collected: 10.18.19 10.05 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 10.21.19 10.10 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000998	0.000998		mg/kg	10.21.19 20.51	U	1
Toluene	108-88-3	< 0.000998	0.000998		mg/kg	10.21.19 20.51	U	1
Ethylbenzene	100-41-4	< 0.000998	0.000998		mg/kg	10.21.19 20.51	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	10.21.19 20.51	U	1
o-Xylene	95-47-6	< 0.000998	0.000998		mg/kg	10.21.19 20.51	U	1
Total Xylenes	1330-20-7	< 0.000998	0.000998		mg/kg	10.21.19 20.51	U	1
Total BTEX		< 0.000998	0.000998		mg/kg	10.21.19 20.51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	10.21.19 20.51		
4-Bromofluorobenzene		460-00-4	112	%	70-130	10.21.19 20.51		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH02A

Lab Sample Id: 640495-004

Soil Date Collected: 10.18.19 10.15 Date Received:10.21.19 09.10

Prep Method: E300P

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: MAB

Analyst: MAB

Date Prep: 10.21.19 17.10 Basis:

Wet Weight

Seq Number: 3104961

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.5	10.0	mg/kg	10.21.19 18.53		1

Matrix:

Analytical Method: TPH by SW8015 Mod

DTH

Tech: DTH Analyst:

10.21.19 14.00 Date Prep:

% Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	10.21.19 14.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	10.21.19 14.52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	10.21.19 14.52	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	10.21.19 14.52	U	1
Total TPH	PHC635	< 50.3	50.3		mg/kg	10.21.19 14.52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	72	%	70-135	10.21.19 14.52		
o-Terphenyl		84-15-1	73	%	70-135	10.21.19 14.52		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH02A Matrix: Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-004 Date Collected: 10.18.19 10.15 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 10.21.19 10.10 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	10.21.19 21.11	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	10.21.19 21.11	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	10.21.19 21.11	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	10.21.19 21.11	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	10.21.19 21.11	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	10.21.19 21.11	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	10.21.19 21.11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	10.21.19 21.11		
4-Bromofluorobenzene		460-00-4	107	%	70-130	10.21.19 21.11		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH03 Matrix: Soil

Date Received:10.21.19 09.10

Lab Sample Id: 640495-005 Date Collected: 10.18.19 10.30

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 10.21.19 17.10

Basis: Wet Weight

Seq Number: 3104961

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mg/kg	10.21.19 18.59	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:

Analyst:

DTH DTH

Date Prep: 10.21.19 14.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	10.21.19 15.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	10.21.19 15.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	10.21.19 15.11	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	10.21.19 15.11	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	10.21.19 15.11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	69	%	70-135	10.21.19 15.11	**	
o-Terphenyl		84-15-1	69	%	70-135	10.21.19 15.11	**	



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH03 Matrix: Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-005 Date Collected: 10.18.19 10.30 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

% Moisture:

Analyst: MAB Date Prep: 10.21.19 10.10 Basis: Wet Weight

Seq Number: 3104975

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.21.19 21.32	U	1
Toluene	108-88-3	< 0.00100	0.00100		mg/kg	10.21.19 21.32	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	10.21.19 21.32	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	10.21.19 21.32	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	10.21.19 21.32	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100		mg/kg	10.21.19 21.32	U	1
Total BTEX		< 0.00100	0.00100		mg/kg	10.21.19 21.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	10.21.19 21.32		
4-Bromofluorobenzene		460-00-4	110	%	70-130	10.21.19 21.32		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH03A Matrix:

trix: Soil Date Received:10.21.19 09.10 te Collected: 10.18.19 10.40 Sample Depth: 4 ft

Lab Sample Id: 640495-006 Date Collected: 10.18.19 10.40

Prep Method: E300P

% Moisture:

Analyst: MAB Date Prep: 10.21.19 17.10 Basis: Wet Weight

Seq Number: 3104961

Tech:

Analytical Method: Chloride by EPA 300

MAB

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 21.6
 10.1
 mg/kg
 10.21.19 19.20
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: DTH Analyst: DTH

Date Prep: 10.21.19 14.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	10.21.19 15.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	10.21.19 15.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	10.21.19 15.11	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	10.21.19 15.11	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	10.21.19 15.11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	72	%	70-135	10.21.19 15.11		
o-Terphenyl		84-15-1	70	%	70-135	10.21.19 15.11		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH03A Matrix: Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-006 Date Collected: 10.18.19 10.40 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 10.21.19 10.10 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.21.19 21.52	U	1
Toluene	108-88-3	< 0.00100	0.00100		mg/kg	10.21.19 21.52	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	10.21.19 21.52	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	10.21.19 21.52	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	10.21.19 21.52	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100		mg/kg	10.21.19 21.52	U	1
Total BTEX		< 0.00100	0.00100		mg/kg	10.21.19 21.52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	10.21.19 21.52		
4-Bromofluorobenzene		460-00-4	106	%	70-130	10.21.19 21.52		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH04 Matrix: Soil

Date Received:10.21.19 09.10

Lab Sample Id: 640495-007 Date Collected: 10.18.19 10.55

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 10.21.19 17.10

Basis: Wet Weight

Seq Number: 3104961

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	55.4	9.98	mg/kg	10.21.19 19.27		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:

Analyst:

DTH DTH

Date Prep: 10.21.19 14.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	10.21.19 15.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	10.21.19 15.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	10.21.19 15.31	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	10.21.19 15.31	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	10.21.19 15.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	72	%	70-135	10.21.19 15.31		
o-Terphenyl		84-15-1	73	%	70-135	10.21.19 15.31		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH04 Matrix: Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-007 Date Collected: 10.18.19 10.55 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 10.21.19 10.10 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.21.19 22.13	U	1
Toluene	108-88-3	< 0.00100	0.00100		mg/kg	10.21.19 22.13	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	10.21.19 22.13	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	10.21.19 22.13	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	10.21.19 22.13	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100		mg/kg	10.21.19 22.13	U	1
Total BTEX		< 0.00100	0.00100		mg/kg	10.21.19 22.13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	113	%	70-130	10.21.19 22.13		
1,4-Difluorobenzene		540-36-3	104	%	70-130	10.21.19 22.13		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Matrix: Soil Sample Id: PH04A

Date Received:10.21.19 09.10

Lab Sample Id: 640495-008 Date Collected: 10.18.19 10.57 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

MAB

% Moisture:

Tech: Analyst: MAB

Date Prep: 10.21.19 17.10 Basis: Wet Weight

Seq Number: 3104961

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	73.0	9.92	mg/kg	10.21.19 19.33		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

10.21.19 14.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.21.19 15.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.21.19 15.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.21.19 15.31	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	10.21.19 15.31	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.21.19 15.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	74	%	70-135	10.21.19 15.31		
o-Terphenyl		84-15-1	78	%	70-135	10.21.19 15.31		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH04A Matrix: Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-008 Date Collected: 10.18.19 10.57 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 10.21.19 14.10 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	10.22.19 01.44	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	10.22.19 01.44	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	10.22.19 01.44	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	10.22.19 01.44	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	10.22.19 01.44	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	10.22.19 01.44	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	10.22.19 01.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	10.22.19 01.44		
4-Bromofluorobenzene		460-00-4	106	%	70-130	10.22.19 01.44		



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Corral Canyon 13H

Matrix: Soil Sample Id: PH04B

Date Received:10.21.19 09.10

Lab Sample Id: 640495-009

Date Collected: 10.18.19 11.05

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

MAB

Prep Method: E300P

Tech: MAB

Analyst:

Date Prep: 10.21.19 17.10 % Moisture: Basis:

Wet Weight

Seq Number: 3104961

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.1	10.1	mg/kg	10.21.19 19.39		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

10.21.19 14.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	10.21.19 15.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	10.21.19 15.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	10.21.19 15.51	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	10.21.19 15.51	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	10.21.19 15.51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	72	%	70-135	10.21.19 15.51		
o-Terphenyl		84-15-1	70	%	70-135	10.21.19 15.51		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH04B Matrix: Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-009 Date Collected: 10.18.19 11.05 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 10.21.19 14.10 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	10.22.19 02.04	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	10.22.19 02.04	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	10.22.19 02.04	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	10.22.19 02.04	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	10.22.19 02.04	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	10.22.19 02.04	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	10.22.19 02.04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	112	%	70-130	10.22.19 02.04		
1,4-Difluorobenzene		540-36-3	103	%	70-130	10.22.19 02.04		



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Corral Canyon 13H

Matrix: Soil Sample Id: PH05

Date Received:10.21.19 09.10

Lab Sample Id: 640495-010 Date Collected: 10.18.19 11.15 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB

Date Prep: 10.21.19 17.10 Basis: Wet Weight

Seq Number: 3104961

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	315	10.0	mg/kg	10.21.19 19.45		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

10.21.19 14.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.21.19 15.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.21.19 15.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.21.19 15.51	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	10.21.19 15.51	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.21.19 15.51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	74	%	70-135	10.21.19 15.51		
o-Terphenyl		84-15-1	76	%	70-135	10.21.19 15.51		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

10.21.19 14.10

Basis:

Wet Weight

Sample Id: PH05 Matrix: Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-010 Date Collected: 10.18.19 11.15 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Date Prep:

% Moisture:

Seq Number: 3104977

MAB

MAB

Tech:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	10.22.19 02.25	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	10.22.19 02.25	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	10.22.19 02.25	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	10.22.19 02.25	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	10.22.19 02.25	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	10.22.19 02.25	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	10.22.19 02.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	115	%	70-130	10.22.19 02.25		
1,4-Difluorobenzene		540-36-3	105	%	70-130	10.22.19 02.25		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH05A Matrix: Soil

Date Received:10.21.19 09.10

Lab Sample Id: 640495-011 Date Collected: 10.18.19 11.25

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 10.21.19 17.10

Basis: Wet Weight

Seq Number: 3104961

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U <10.0 10.0 10.21.19 19.52 mg/kg 1

Analytical Method: TPH by SW8015 Mod

DTH

Prep Method: SW8015P

% Moisture:

Tech: DTH

Analyst:

Date Prep: 10.21.19 14.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	10.21.19 16.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3		mg/kg	10.21.19 16.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	10.21.19 16.11	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	10.21.19 16.11	U	1
Total TPH	PHC635	<50.3	50.3		mg/kg	10.21.19 16.11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	86	%	70-135	10.21.19 16.11		
o-Terphenyl		84-15-1	84	%	70-135	10.21.19 16.11		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH05A Matrix: Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-011 Date Collected: 10.18.19 11.25 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 10.21.19 14.10 Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000994	0.000994		mg/kg	10.22.19 02.45	U	1
Toluene	108-88-3	< 0.000994	0.000994		mg/kg	10.22.19 02.45	U	1
Ethylbenzene	100-41-4	< 0.000994	0.000994		mg/kg	10.22.19 02.45	U	1
m,p-Xylenes	179601-23-1	< 0.00199	0.00199		mg/kg	10.22.19 02.45	U	1
o-Xylene	95-47-6	< 0.000994	0.000994		mg/kg	10.22.19 02.45	U	1
Total Xylenes	1330-20-7	< 0.000994	0.000994		mg/kg	10.22.19 02.45	U	1
Total BTEX		< 0.000994	0.000994		mg/kg	10.22.19 02.45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	10.22.19 02.45		
4-Bromofluorobenzene		460-00-4	111	%	70-130	10.22.19 02.45		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH06

Matrix: Soil

Date Received:10.21.19 09.10

Lab Sample Id: 640495-012

Date Collected: 10.18.19 11.37

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep: 10.21.19 17.10

Basis:

Wet Weight

Seq Number: 3104961

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 173
 49.4
 mg/kg
 10.21.19 20.10
 5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

Analyst: DTH

Date Prep: 10.21.19 14.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	10.21.19 16.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	10.21.19 16.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	10.21.19 16.11	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	10.21.19 16.11	U	1
Total TPH	PHC635	< 50.3	50.3		mg/kg	10.21.19 16.11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	75	%	70-135	10.21.19 16.11		
o-Terphenyl		84-15-1	77	%	70-135	10.21.19 16.11		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH06 Matrix: Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-012 Date Collected: 10.18.19 11.37 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

% Moisture:

Analyst: MAB Date Prep: 10.21.19 14.10 Basis: Wet Weight

Seq Number: 3104977

MAB

Tech:

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000992	0.000992		mg/kg	10.22.19 03.06	U	1
Toluene	108-88-3	< 0.000992	0.000992		mg/kg	10.22.19 03.06	U	1
Ethylbenzene	100-41-4	< 0.000992	0.000992		mg/kg	10.22.19 03.06	U	1
m,p-Xylenes	179601-23-1	< 0.00198	0.00198		mg/kg	10.22.19 03.06	U	1
o-Xylene	95-47-6	< 0.000992	0.000992		mg/kg	10.22.19 03.06	U	1
Total Xylenes	1330-20-7	< 0.000992	0.000992		mg/kg	10.22.19 03.06	U	1
Total BTEX		< 0.000992	0.000992		mg/kg	10.22.19 03.06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	106	%	70-130	10.22.19 03.06		
4-Bromofluorobenzene		460-00-4	113	%	70-130	10.22.19 03.06		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Matrix: Soil Sample Id: PH06A

Date Received:10.21.19 09.10

Lab Sample Id: 640495-013

Date Collected: 10.18.19 11.50

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep:

10.21.19 17.10

Basis:

Wet Weight

Seq Number: 3104961

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 9.84	9.84	mg/kg	10.21.19 20.17	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

10.21.19 14.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	10.21.19 16.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	10.21.19 16.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	10.21.19 16.31	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	10.21.19 16.31	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	10.21.19 16.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	81	%	70-135	10.21.19 16.31		
o-Terphenyl		84-15-1	80	%	70-135	10.21.19 16.31		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH06A Matrix: Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-013 Date Collected: 10.18.19 11.50 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

MAB % Moisture:

Analyst: MAB Date Prep: 10.21.19 14.10 Basis: Wet Weight

Seq Number: 3104977

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	10.22.19 03.26	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	10.22.19 03.26	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	10.22.19 03.26	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	10.22.19 03.26	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	10.22.19 03.26	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	10.22.19 03.26	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	10.22.19 03.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	109	%	70-130	10.22.19 03.26		
1,4-Difluorobenzene		540-36-3	102	%	70-130	10.22.19 03.26		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH07

Matrix: Soil

Date Received:10.21.19 09.10

Lab Sample Id: 640495-014

Date Collected: 10.18.19 12.10

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: MAB

Analyst:

MAB

Date Prep: 10.21.19 17.10

Basis:

Wet Weight

Seq Number: 3104961

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.04	0.501	mg/kg	10.21.19 20.33		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: D'

o-Terphenyl

Analyst:

DTH DTH

Date Prep: 10.21.19 14.00

83

%

70-135

Basis: Wet Weight

10.21.19 16.51

Seq Number: 3104972

Cas Number Result RL**Parameter** Units **Analysis Date** Flag Dil PHC610 10.21.19 16.51 U Gasoline Range Hydrocarbons (GRO) < 50.1 50.1 mg/kg 1 Diesel Range Organics (DRO) C10C28DRO < 50.1 50.1 mg/kg 10.21.19 16.51 U 1 Motor Oil Range Hydrocarbons (MRO) PHCG2835 < 50.1 50.1 10.21.19 16.51 U mg/kg Total GRO-DRO PHC628 < 50.1 50.1 mg/kg 10.21.19 16.51 U 1 Total TPH PHC635 50.1 U < 50.1 10.21.19 16.51 mg/kg 1 % Cas Number Units Surrogate Limits **Analysis Date** Flag Recovery 1-Chlorooctane 111-85-3 70-135 10.21.19 16.51 83 %

84-15-1



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

10.21.19 14.10

Basis:

Wet Weight

Sample Id: Matrix: Soil Date Received:10.21.19 09.10 **PH07**

Lab Sample Id: 640495-014 Date Collected: 10.18.19 12.10 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

> MAB % Moisture: Date Prep:

Seq Number: 3104977

MAB

Tech:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	10.22.19 03.46	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	10.22.19 03.46	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	10.22.19 03.46	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	10.22.19 03.46	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	10.22.19 03.46	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	10.22.19 03.46	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	10.22.19 03.46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	109	%	70-130	10.22.19 03.46		
1,4-Difluorobenzene		540-36-3	101	%	70-130	10.22.19 03.46		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Soil

Date Collected: 10.18.19 12.20

Sample Id: PH07A Matrix:

Date Received:10.21.19 09.10

Lab Sample Id: 640495-015

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

MAB Tech:

% Moisture:

Date Prep: 10.21.19 17.10 Basis:

Wet Weight

Analyst: MAB Seq Number: 3104961

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 10.7 10.0 10.21.19 20.39 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst:

DTH DTH

10.21.19 14.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	RL		Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	10.21.19 16.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	10.21.19 16.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	10.21.19 16.51	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	10.21.19 16.51	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	10.21.19 16.51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	79	%	70-135	10.21.19 16.51		
o-Terphenyl		84-15-1	78	%	70-135	10.21.19 16.51		



LT Environmental, Inc., Arvada, CO

Corral Canyon 13H

Sample Id: PH07A Matrix: Soil Date Received:10.21.19 09.10

Lab Sample Id: 640495-015 Date Collected: 10.18.19 12.20 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 10.21.19 14.10 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	10.22.19 04.07	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	10.22.19 04.07	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	10.22.19 04.07	U	1
m,p-Xylenes	179601-23-1	< 0.00202	0.00202		mg/kg	10.22.19 04.07	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	10.22.19 04.07	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	10.22.19 04.07	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	10.22.19 04.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	10.22.19 04.07		
4-Bromofluorobenzene		460-00-4	112	%	70-130	10.22.19 04.07		



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.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.

E300P



QC Summary 640495

LT Environmental, Inc.

Corral Canyon 13H

Analytical Method: Chloride by EPA 300

Seq Number: 3104961 Matrix: Solid

LCS Sample Id: 7688570-1-BKS MB Sample Id: 7688570-1-BLK

Date Prep: 10.21.19 LCSD Sample Id: 7688570-1-BSD

Prep Method:

MR Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result 10.21.19 18:33 Chloride <10.0 250 272 109 274 110 90-110 20 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: Seq Number: 3104961 Matrix: Soil Date Prep: 10.21.19

Parent Sample Id: 640495-001 MS Sample Id: 640495-001 S MSD Sample Id: 640495-001 SD

Spike MS MS %RPD RPD Limit Units Parent **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec Chloride <9.88 198 212 107 210 106 90-110 20 mg/kg 10.21.19 17:47

Analytical Method: Chloride by EPA 300

Prep Method: E300P Seq Number: 3104961 Matrix: Soil Date Prep: 10.21.19

MS Sample Id: 640495-011 S MSD Sample Id: 640495-011 SD Parent Sample Id: 640495-011

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec 10.21.19 19:58 Chloride <10.0 201 216 107 214 90-110 20 106 mg/kg

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method: Seq Number: 3104862 Matrix: Solid Date Prep: 10.21.19

MB Sample Id: LCS Sample Id: 7688525-1-BKS LCSD Sample Id: 7688525-1-BSD 7688525-1-BLK

LCS %RPD RPD Limit Units MB Spike LCS LCSD LCSD Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec 10.21.19 09:22 Gasoline Range Hydrocarbons (GRO) 848 85 854 70-135 < 50.0 1000 85 35 1 mg/kg 10.21.19 09:22 888 89 885 70-135 0 35 Diesel Range Organics (DRO) 1000 89 < 50.0 mg/kg

LCS LCSD MB MB LCS LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 1-Chlorooctane 88 97 99 70-135 % 10.21.19 09:22 90 10.21.19 09:22 o-Terphenyl 83 90 70-135 %

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

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

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

LCS = Laboratory Control Sample

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



QC Summary 640495

LT Environmental, Inc.

Corral Canyon 13H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3104972 Matrix: Solid

MB Sample Id: 7688557-1-BLK

SW8015P Prep Method:

> Date Prep: 10.21.19 LCSD Sample Id: 7688557-1-BSD

LCS Sample Id: 7688557-1-BKS

%RPD RPD Limit Units

LCS MB Spike LCS Limits LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result Gasoline Range Hydrocarbons (GRO) 10.21.19 14:12 < 50.0 1000 937 94 938 94 70-135 0 35 mg/kg 83 70-135 10.21.19 14:12 Diesel Range Organics (DRO) 1000 828 862 86 4 35 < 50.0 mg/kg

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec %Rec Flag Flag %Rec Flag Date 1-Chlorooctane 89 113 113 70-135 % 10.21.19 14:12 o-Terphenyl 91 107 112 70-135 % 10.21.19 14:12

Analytical Method: TPH by SW8015 Mod

Seq Number: 3104862 Matrix: Solid

Prep Method: SW8015P Date Prep: 10.21.19

MB Sample Id: 7688525-1-BLK

MB Units Analysis **Parameter** Flag Result Date 10.21.19 09:03 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number:

3104972

Matrix: Solid

Prep Method: Date Prep: SW8015P 10.21.19

MB Sample Id: 7688557-1-BLK

Parameter

MB Result

Analysis Flag Date

Motor Oil Range Hydrocarbons (MRO) 10.21.19 13:52 < 50.0 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number: Parent Sample Id: 3104862 640490-001

Matrix: Soil MS Sample Id: 640490-001 S

Prep Method: Date Prep:

SW8015P

10.21.19

MSD Sample Id: 640490-001 SD

Units

MS %RPD RPD Limit Units MS Limits Parent Spike **MSD MSD** Analysis Flag **Parameter** Result Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 10.21.19 10:02 <13.9 1000 848 85 857 86 70-135 1 35 mg/kg 1000 70-135 10.21.19 10:02 Diesel Range Organics (DRO) 12.5 766 75 788 78 3 35 mg/kg

MS MS **MSD** Limits Units Analysis **MSD Surrogate** Flag Flag Date %Rec %Rec 10.21.19 10:02 1-Chlorooctane 103 103 70-135 % 10.21.19 10:02 o-Terphenyl 101 101 70-135 %

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

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

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

LCS = Laboratory Control Sample

A = Parent Result

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

Flag

Flag

Prep Method: SW8015P

10.21.19



QC Summary 640495

LT Environmental, Inc.

Corral Canyon 13H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3104972 Matrix: Soil Date Prep:

Parent Sample Id: 640495-003 MS Sample Id: 640495-003 S MSD Sample Id: 640495-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lin	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	< 50.2	1000	886	89	846	85	70-135	5	35	mg/kg	10.21.19 14:32	
Diesel Range Organics (DRO)	< 50.2	1000	809	81	765	77	70-135	6	35	mg/kg	10.21.19 14:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		85		70-135	%	10.21.19 14:32
o-Terphenyl	87		81		70-135	%	10.21.19 14:32

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

 Seq Number:
 3104975
 Matrix:
 Solid
 Date Prep:
 10.21.19

 MB Sample Id:
 7688598-1-BLK
 LCS Sample Id:
 7688598-1-BKS
 LCSD Sample Id:
 7688598-1-BSD

Parameter	MB Result	Spike Amount	Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	Units	Analysis Date	
Benzene	< 0.00100	0.100	0.0984	98	0.0911	91	70-130	8	35	mg/kg	10.21.19 12:54	
Toluene	< 0.00100	0.100	0.0956	96	0.0886	89	70-130	8	35	mg/kg	10.21.19 12:54	
Ethylbenzene	< 0.00100	0.100	0.0992	99	0.0915	92	71-129	8	35	mg/kg	10.21.19 12:54	
m,p-Xylenes	< 0.00200	0.200	0.199	100	0.184	92	70-135	8	35	mg/kg	10.21.19 12:54	
o-Xylene	< 0.00100	0.100	0.0988	99	0.0921	92	71-133	7	35	mg/kg	10.21.19 12:54	

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag	Limits	Cints	Date
1,4-Difluorobenzene	100		103		101		70-130	%	10.21.19 12:54
4-Bromofluorobenzene	104		106		105		70-130	%	10.21.19 12:54

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3104977Matrix: SolidDate Prep:10.21.19

MB Sample Id: 7688601-1-BLK LCS Sample Id: 7688601-1-BKS LCSD Sample Id: 7688601-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00100	0.100	0.0975	98	0.0993	99	70-130	2	35	mg/kg	10.21.19 23:48
Toluene	< 0.00100	0.100	0.0935	94	0.0949	95	70-130	1	35	mg/kg	10.21.19 23:48
Ethylbenzene	< 0.00100	0.100	0.0955	96	0.0960	96	71-129	1	35	mg/kg	10.21.19 23:48
m,p-Xylenes	< 0.00200	0.200	0.190	95	0.191	96	70-135	1	35	mg/kg	10.21.19 23:48
o-Xylene	< 0.00100	0.100	0.0959	96	0.0981	98	71-133	2	35	mg/kg	10.21.19 23:48

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		104		105		70-130	%	10.21.19 23:48
4-Bromofluorobenzene	106		106		110		70-130	%	10.21.19 23:48

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference
$$\begin{split} [D] &= 100*(\text{C-A}) \, / \, B \\ RPD &= 200* \mid (\text{C-E}) \, / \, (\text{C+E}) \mid \\ [D] &= 100*(\text{C}) \, / \, [\text{B}] \end{split}$$

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

LCS = Laboratory Control Sample

A = Parent Result
C = MS/LCS Result

C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Flag

Flag

SW5030B

10.21.19



Seq Number:

QC Summary 640495

LT Environmental, Inc.

Corral Canyon 13H

Analytical Method: BTEX by EPA 8021B

Prep Method: 3104975 Matrix: Soil Date Prep:

MS Sample Id: 640494-001 S MSD Sample Id: 640494-001 SD Parent Sample Id: 640494-001

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date]
Benzene	< 0.00101	0.101	0.106	105	0.0955	95	70-130	10	35	mg/kg	10.21.19 13:35	
Toluene	< 0.00101	0.101	0.103	102	0.0924	91	70-130	11	35	mg/kg	10.21.19 13:35	
Ethylbenzene	< 0.00101	0.101	0.106	105	0.0951	94	71-129	11	35	mg/kg	10.21.19 13:35	
m,p-Xylenes	< 0.00201	0.201	0.213	106	0.191	95	70-135	11	35	mg/kg	10.21.19 13:35	
o-Xylene	< 0.00101	0.101	0.106	105	0.0951	94	71-133	11	35	mg/kg	10.21.19 13:35	

MSMSD MS **MSD** Limits Units Analysis **Surrogate** %Rec Flag Flag Date %Rec 1,4-Difluorobenzene 106 103 70-130 10.21.19 13:35 % 10.21.19 13:35 4-Bromofluorobenzene 112 112 70-130 %

Analytical Method: BTEX by EPA 8021B

SW5030B Prep Method: Seq Number: 3104977 Matrix: Soil Date Prep: 10.21.19 MS Sample Id: 640495-008 S MSD Sample Id: 640495-008 SD Parent Sample Id: 640495-008

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00100	0.100	0.0799	80	0.0751	75	70-130	6	35	mg/kg	10.22.19 00:29
Toluene	< 0.00100	0.100	0.0754	75	0.0705	71	70-130	7	35	mg/kg	10.22.19 00:29
Ethylbenzene	< 0.00100	0.100	0.0783	78	0.0744	74	71-129	5	35	mg/kg	10.22.19 00:29
m,p-Xylenes	< 0.00200	0.200	0.155	78	0.147	74	70-135	5	35	mg/kg	10.22.19 00:29
o-Xylene	< 0.00100	0.100	0.0786	79	0.0742	74	71-133	6	35	mg/kg	10.22.19 00:29

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		102		70-130	%	10.22.19 00:29
4-Bromofluorobenzene	110		106		70-130	%	10.22.19 00:29

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

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

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

LCS = Laboratory Control Sample A = Parent Result

C = MS/LCS Result

E = MSD/LCSD Result

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

ABORATORIES Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Project Manager: Aimee Cole

Company Name:

Address: 3300 North A Street

LT Environ mental

Company Name: XTO Energy

Bill to: (if different)

Kyro Litroll

Chain of Custody

Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasibad, NM (432) 704-5440 Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

Work Order No: 640495

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

Work Order Comments

www.xenco.com

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9 2

Project Number Cl2918 Turn Acount Project Number Cl2918 Turn Acount Routine Rout
Corral Canyon 13H Turn Around O12918117 Routine Routine Code Code
Corral Canyon 13H Turn Around Press. O12918117 Routine Code Code MeOH

ABORATORIES

Company Name: LT Environmental

Company Name:

3104 E. Greene

Street

State of Project

State ZIP:

Carlsbad NM 88220

Deliverables: EDD

Reporting:Level III PST/UST TRRP Level IV

ADaPT

Other:

Program: UST/PST PRP Brownfields RRC Superfund

Work Order Comments

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Page

of

2

Bill to: (If different) Kyle Littre!)

Address:

3300 North A Street

City, State ZIP: Widland TX 79705

Project Manager:

Aimee Cole

Chain of Custody

Work Order No: (940 495)

Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440 Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

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

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

Action 8363

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	8363
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
amaxwell	None	9/14/2022