LT Environmental, Inc.

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

A proud member of WSP

February 21, 2020

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

RE: Closure Request Corral Canyon Fed #4H Remediation Permit Number 2RP-3713 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, soil sampling, and excavation activities at the Corral Canyon Fed #4H (Site) in Unit P, Section 5, Township 25 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil after a natural gas fire and release of crude oil and produced water 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 site assessment activities and results of the soil sampling events, XTO is requesting no further action for this release.

RELEASE BACKGROUND

On May 21, 2016, a connection on the wellhead failed, causing natural gas, crude oil, and produced water to release. Approximately 1,552 mcf of natural gas were released; a spark caused the natural gas to ignite. Due to the fire, the volume of crude oil and produced water released could not be gauged. The release affected the well pad area surrounding the wellhead. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on June 2, 2016, and was assigned Remediation Permit (RP) Number 2RP-3713 (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 State Engineer (NM OSE) well #RA7162, located approximately 6,500 feet southeast of the Site. The water well has a depth to groundwater of approximately 40 feet bgs and a total depth of 55 feet bgs. However, 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 779 feet southeast 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.

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

MONITORING WELL INFORMATION

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 an unnamed dry wash, located approximately 1,650 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a medium-potential karst area.

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;
- TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg;
- Total petroleum hydrocarbons (TPH): 2,500 mg/kg; and
- Chloride: 10,000 mg/kg.

SITE ASSESSMENT, EXCAVATION, AND DELINEATION SOIL SAMPLING ACTIVITIES

During June 2016, excavation of impacted soil was directed by Environmental Plus, Inc. (EPI), an environmental consulting firm that is no longer in operation. The available documentation from June 2016 is provided in Attachment 2. Documentation includes site photographs, a release map, correspondence with NMOCD, and soil sample laboratory analytical results. Based on the laboratory analytical results for soil samples collected by EPI in June 2016, the depth of soil impacts did not extend past 1 foot bgs. EPI indicated that the release area surrounding the wellhead was excavated to a depth of 1 foot bgs, and the remaining release area was scraped to a depth of 0.5 feet bgs. Due to the absence of confirmation soil sampling records from the June 2016 excavation activities, LTE personnel conducted additional site assessment and soil sampling activities to confirm that the Closure Criteria requirements were met.

On October 29, 2019, LTE personnel was at the Site to complete site assessment activities. Potholes were advanced via backhoe within and around the documented release area to assess for the presence or absence of impacted soil. Potholes PH01 through PH09 were advanced to a depth of 2 feet bgs. Two delineation soil samples were collected from each pothole from depths from 0.5 feet and 2 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 the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 3. The delineation soil sample locations 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 Carlsbad, New Mexico, 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. Based on laboratory analytical results for the delineation soil samples, excavation of impacted soil was required in the area around pothole PH02.

On November 12, 2019, LTE personnel returned to the Site to oversee excavation of impacted soil as indicated by field screening activities and laboratory analytical results for the delineation



soil samples. To direct excavation activities, LTE screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach[®] chloride QuanTab[®] test strips, respectively. Impacted soil was excavated to a depth of 2 feet bgs in the area around pothole PH02. Following removal of impacted soil, LTE collected 5-point composite soil samples every 200 square feet from the sidewalls and floors of the excavations. The 5-point composite samples were collected by depositing five aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil sample SW01 was collected from the sidewalls of the excavation from a depth of 0.5 feet to 2 feet bgs. Composite soil sample FS01 was collected from the floor of the excavation from a depth of 2 feet bgs. The excavation extent and excavation soil sample locations are depicted on Figure 3. The excavation soil samples were collected, handled, and analyzed as described above and submitted to Xenco. Photographic documentation was conducted during the Site visits. Photographs are included in Attachment 4.

The excavation measured approximately 150 square feet in area and was completed to a depth of 2 feet bgs. A total of approximately 15 cubic yards of impacted soil were removed from the excavation. The impacted soil was transported and properly disposed of at the R360 Landfill located in Hobbs, New Mexico.

ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples, collected from potholes PH01 and PH03 through PH09 indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for delineation soil sample PH02, collected at a depth of 0.5 feet bgs, indicated that GRO/DRO and TPH concentrations exceeded the Closure Criteria. Subsequent delineation soil sample PH02A, collected at a depth of 2 feet bgs, was compliant with the Closure Criteria. Impacted soil was excavated from the area around pothole PH02. Laboratory analytical results for excavation soil samples SW01 and FS01 indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 5.

CLOSURE REQUEST

Impacted soil was excavated from the Site during June 2016 to address the May 21, 2016, release of crude oil and produced water at the Site. Due to the absence of soil sample analytical results from the June 2016 excavation, site assessment activities were completed in October 2019 to confirm the removal of impacted soil. Nine potholes (PH01 through PH09) were advanced within the release extent to assess for the presence or absence of impacted soil. Based on the soil sample laboratory analytical results from the site assessment activities, impacted soil was excavated from the area around pothole PH02. Laboratory analytical results for the excavation soil samples indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for the delineation soil samples collected



from potholes PH01 and PH03 through PH09, indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the excavation and delineation soil sample analytical results, no further remediation was required.

Initial response efforts, natural attenuation, and excavation of impacted soil have mitigated impacts at this Site. XTO requests no further action for RP Number 2RP-3713. XTO backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions. An updated NMOCD Form C-141 is included in 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.

Sinée Cole

Aimee Cole Project Environmental Scientist

Ushley L. Ager

Ashley L. Ager, P.G. Senior Geologist

cc: Kyle Littrell, XTO Bureau of Land Management Mike Bratcher, NMOCD

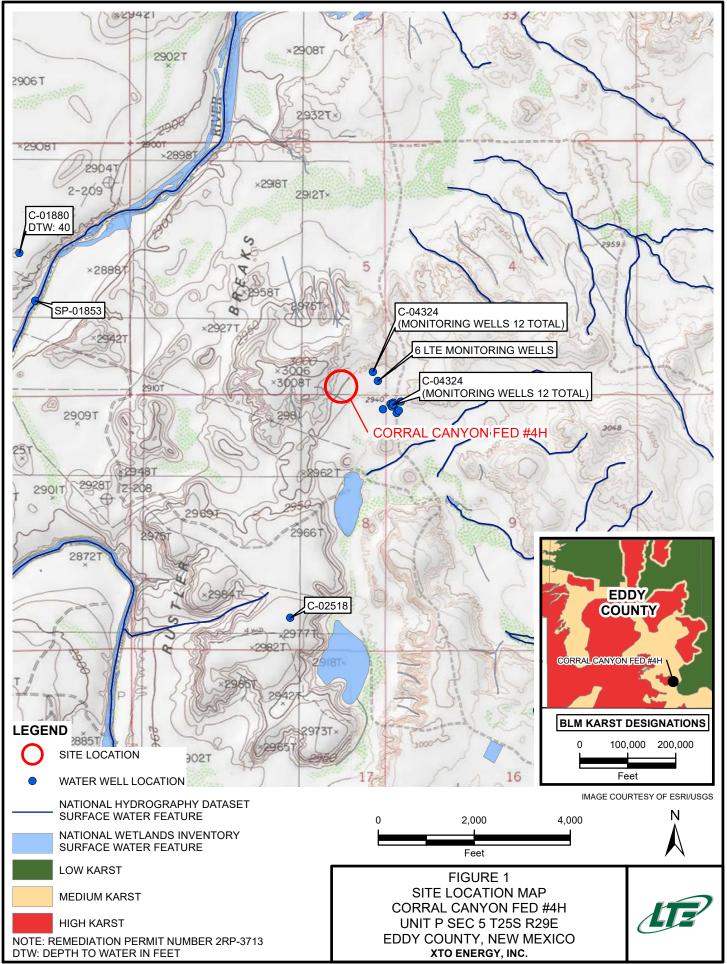
Attachments:

- Figure 1 Site Location Map
- Figure 2 Excavation Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Initial/Final NMOCD Form C-141 (2RP-3713)
- Attachment 2 Historical Documentation
- Attachment 3 Lithologic / Soil Sample Logs
- Attachment 4 Photographic Log
- Attachment 5 Laboratory Analytical Reports

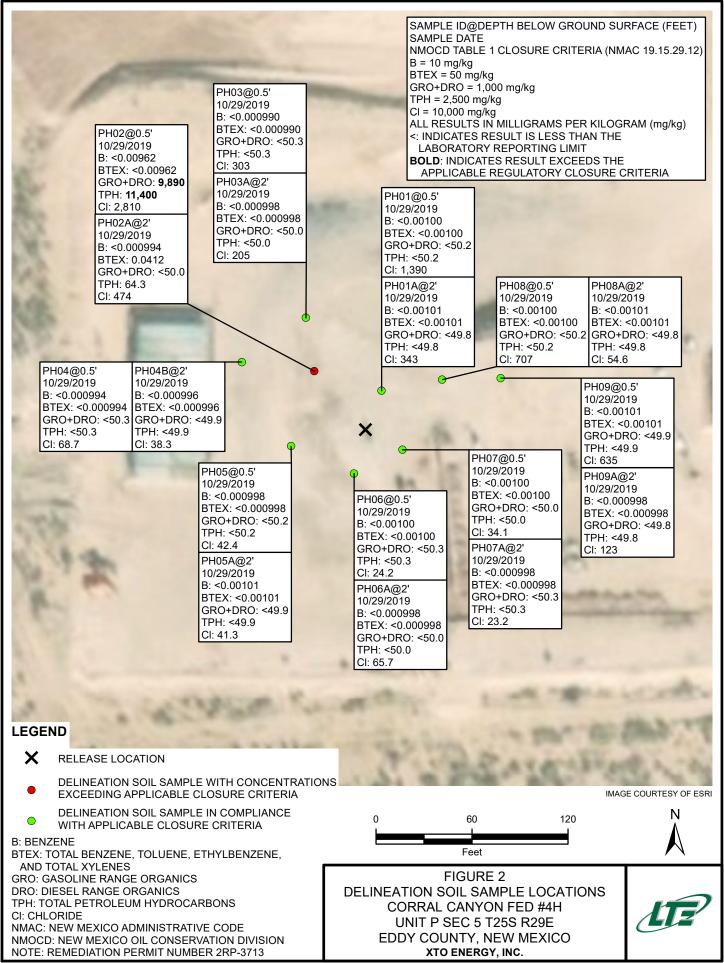
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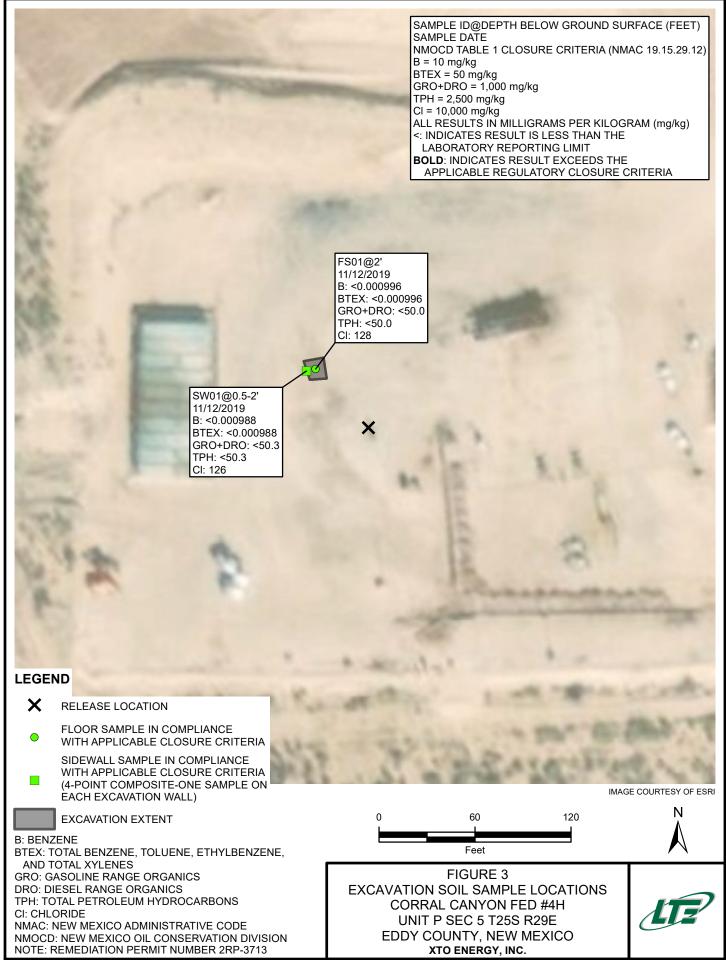
FIGURES





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TABLES

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TABLE 1 SOIL ANALYTICAL RESULTS

CORRAL CANYON FED #4H REMEDIATION PERMIT NUMBER 2RP-3713 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
PH01	0.5	10/29/2019	< 0.00100	< 0.00100	<0.00100	<0.00100	<0.00100	<50.2	<50.2	<50.2	<50.2	<50.2	1,390
PH01A	2	10/29/2019	< 0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<49.8	<49.8	<49.8	<49.8	<49.8	343
PH02	0.5	10/29/2019	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<251	9,890	1,460	9,890	11,400	2,810
PH02A	2	10/29/2019	<0.000994	<0.000994	<0.000994	0.0412	0.0412	<50.0	<50.0	64.3	<50.0	64.3	474
PH03	0.5	10/29/2019	<0.000990	<0.000990	<0.000990	<0.000990	<0.000990	<50.3	<50.3	<50.3	<50.3	<50.3	303
PH03A	1	10/29/2019	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	<50.0	<50.0	<50.0	<50.0	<50.0	205
PH03B	2	10/29/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.2	<50.2	<50.2	<50.2	<50.2	531
PH04	0.5	10/29/2019	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<50.3	<50.3	<50.3	<50.3	<50.3	68.7
PH04B	2	10/29/2019	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	<49.9	<49.9	<49.9	<49.9	<49.9	38.3
PH05	0.5	10/29/2019	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	<50.2	<50.2	<50.2	<50.2	<50.2	42.4
PH05A	2	10/29/2019	< 0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<49.9	<49.9	<49.9	<49.9	<49.9	41.3
PH06	0.5	10/29/2019	< 0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.3	<50.3	<50.3	<50.3	<50.3	24.2
PH06A	2	10/29/2019	<0.000988	<0.000988	<0.000988	<0.000988	<0.000988	<50.0	<50.0	<50.0	<50.0	<50.0	65.7
PH07	0.5	10/29/2019	< 0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.0	<50.0	<50.0	<50.0	<50.0	34.1
PH07A	2	10/29/2019	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	<50.3	<50.3	<50.3	<50.3	<50.3	23.2
PH08	0.5	10/29/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.2	<50.2	<50.2	<50.2	<50.2	707
PH08A	2	10/29/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<49.8	<49.8	<49.8	<49.8	<49.8	54.6
PH09	0.5	10/29/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<49.9	<49.9	<49.9	<49.9	<49.9	635
PH09A	2	10/29/2019	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	<49.8	<49.8	<49.8	<49.8	<49.8	123
SW01	0.5 - 2	11/12/2019	<0.000988	<0.000988	<0.000988	<0.000988	<0.000988	<50.3	<50.3	<50.3	<50.3	<50.3	126
FS01	2	11/12/2019	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	<50.0	<50.0	<50.0	<50.0	<50.0	128
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 xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics NMAC - New Mexico Administrative Code NMOCD - New Mexico Oil Conservation Division NE - not established TPH - total petroleum hydrocarbons Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

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

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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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

Received 6/2/2016 NMOCD Artesia

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Form C-141 Revised August 8, 2011

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

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 1220 South St. Francis Dr. Santa Fe, NM 87505												
Release Notification and Corrective Action												
nHMP16	1552398	2				OPERA				al Report		Final Report
Name of Co	ompany X	TO Energy,	Inc. 53	380			hn Robinson		7 min	arreport		T mai report
Address 500 W. Illinois, Suite 100, Midland, TX 79701							No. 575-441-5	199				
Facility Nar	ne Corral	Canyon Fee	d #4 H			Facility Typ	e Well			and the second second second		
Surface Ow	ner BLM	[Mineral C	Owner	BLM / NM	SLO		API No	. 30-015-4	42923	
				LOC	TIO	OF REI	FASE					
Unit Letter P	Section 5	Township T25S	Range R29E	Feet from the 200		South Line	Feet from the 760	1000	Vest Line ast	County Eddy		
			Lat	itude 32.15234			e_104.000009'V	N				1
		1.71 0.11				OF RELI						
Type of Relea	ase Welli	head Fire Oil	, Produce	d Water and Natu	ral Gas		Release 1552 m we were not able s.		Volume F	lecovered	0	
Source of Rel						Date and H 5-21-16 4:	our of Occurrenc	æ	Date and 5-21-16	Hour of Dis 4:00 am	covery	
Was Immedia	ate Notice C		Yes 🗌	No 🗌 Not Ree	quired	If YES, To Jim Amos	Whom? BLM, Heather P	atterson	OCD			
By Whom? J						Date and Hour 5-21-16 11:00 am						
Was a Watero	course Reac	hed?	Yes X	No		If YES, Vo	lume Impacting t	he Wate	rcourse.			
micro blaze a	n wellhead nd will clea	failed and cau n up rest of co	sed a leak ontaminati	. Something spar on asap.	rked and	caught natur	al gas on fire. On	nce fire v	vas out we	sprayed ove	erspray	arca with
Describe Area Fire was conta				en.* amples from cont	aminated	l area and cle	an up contaminat	ted soil a	and replace	with clean	soil.	
regulations al public health should their o	l operators a or the envir perations ha iment. In ad	are required to conment. The ave failed to a ddition, NMO	acceptanc dequately CD accept	is true and comp d/or file certain re e of a C-141 repo investigate and re tance of a C-141	elease no ort by the emediate	NMOCD ma contaminatio	d perform correct arked as "Final Re on that pose a three	tive action eport" do eat to gro	ons for rele bes not reli- ound water	eases which eve the oper , surface wa	may en ator of ter, hur	danger liability nan health
Signature:	John	hel	tim				OIL CONS	SERV	ATION	DIVISIC	DN	
Printed Name	: John Rob	inson			F	Approved by	Environmental Sp	pecialist:	:			
Title: Mainte	nance Forer	man			I	Approval Date	6/3/2016	E	Expiration I	Date: N	/A	
E-mail Addres	ss: john_ro	binson@xtoer	nergy.com		0	Conditions of	Approval:			Attached		
						Remediati	on per OCD	Rules	and Gui	delines		
Date: 6-2-16	innal Chan	te If Necess		575-441-5199		Submit Re	mediation Pr	roposa	al No Lat	ter		

Attach Additional Sheets If Necessary

Than 7/3/2016

2RP-3713

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

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Incident ID	
District RP	
Facility ID	2RP-3713
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc	OGRID: 5380
Contact Name: Kyle Littrell	Contact Telephone: (432)-221-7331
Contact email: Kyle_Littrell@xtoenergy.com	Incident #: 2RP-3713
Contact mailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude <u>N 32.152346</u>

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Corral Canyon Fed #4H	Site Type: Production Facility
Date Release Discovered: 5/21/2016	API# (if applicable): 30-015-42923

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

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls): Unknown	Volume Recovered (bbls): 0
Produced Water	Volume Released (bbls): Unknown	Volume Recovered (bbls): 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls):	Volume Recovered (bbls):
Natural Gas	Volume Released (Mcf): 1,552	Volume Recovered (Mcf): 0
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A connection on the wellhead failed and caused a leak. A spark caused the natural gas to catch on fire. The volume of released fluids could not be gauged due to the fire.

Incident ID	
District RP	
Facility ID	2RP-3713
Application ID	

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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	Natural gas fire, unknown volume of fluid was released.
19.15.29.7(A) NMAC?	
🛛 Yes 🗌 No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Immediate notice was give	ven by John Robinson to Heather Patterson (NMOCD) and Jim Amos (BLM) on May 21, 2016 at 11:00 AM.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have \underline{not} been undertaken, explain why: N/A

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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: <u>SH&E Supervisor</u>
Signature:	Date:2-21-2020
email: <u>Kyle Littrell@xtoenergy.com</u> T	Pelephone: 432-221-7331
OCD Only	
Received by:	Date:

Received by OCD: 4/8/2020 2:57:40 PM Form C-141 State of New Mexico

Oil Conservation Division

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2RP-3713

Facility ID Application ID

Incident ID

District RP

Арриса

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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Page 3

Received by OCD: 4/8/2020 2	:57:40 PM State of New Mexico			Page 17 of 123
			Incident ID	
Page 4	Oil Conservation Divis	ion	District RP	
			Facility ID	2RP-3713
			Application ID	
regulations all operators are req public health or the environmen failed to adequately investigate addition, OCD acceptance of a and/or regulations. Printed Name: <u>Kyle</u> Signature:	ation given above is true and complete t uired to report and/or file certain releas it. The acceptance of a C-141 report by and remediate contamination that pose C-141 report does not relieve the operat <u>C-141 report does not relieve the operat</u>	the notifications and perform of the OCD does not relieve the a threat to groundwater, surf tor of responsibility for composite of the second	corrective actions for rele e operator of liability sh ace water, human health pliance with any other fe upervisor	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:		Date:		

Oil Conservation Division

Incident ID	NHMP1615523982
District RP	
Facility ID	2RP-3713
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 a	tems must be included in the closure report.							
\square A scaled site and sampling diagram as described in 19.15.29.	11 NMAC							
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)							
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)							
Description of remediation activities								
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in							
Printed Name:Kyle Littrell	Title:SH&E Supervisor							
Signature:	Date: <u>2-21-2020</u>							
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331							
OCD Only								
Received by:	Date:							
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.							
Closure Approved by: Bradford Billings	Date: 02/01/2021							
Printed Name: Bradford Billings	Title: E.Spec.A							

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Page 21 of 123

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From:	Daniel Dominguez
To:	Patterson, Heather, EMNRD; Robinson, John
Subject:	Corral Canyon Federal #4H
Date:	Thursday, June 16, 2016 11:53:58 AM
Attachments:	Corral Canyon Federal #4H Sample Map.pdf H601228 EPI.pdf

Heather,

Attached is the Sample Map and Analytical Data for the Corral Canyon Federal #4H, operated by XTO. The release area around the well head has been excavated 1 foot with the remaining area excavated 6 inches.

Laboratory analytical data indicates the excavation to be void of BTEX, TPH and Chloride in excess of NMOCD RRALs.

EPI proposes to backfill the excavation with clean soil and submit a Final Closure Report to NMOCD and XTO.

Sincerely, ENVIRONMENTAL PLUS, INC.

Daniel Dominguez Environmental Consultant/Safety Director

Environmental Plus, Inc. P.O. Box 1558 2100 Avenue 'O' Eunice, NM 88231 (575) 631-0401 (Cell) (575) 394-3481 (Office) (575) 394-2601 (fax)





June 13, 2016

Daniel Dominguez Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

RE: CORRAL CANYON FED 4H

Enclosed are the results of analyses for samples received by the laboratory on 06/06/16 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	06/06/2016	Sampling Date:	06/06/2016
Reported:	06/13/2016	Sampling Type:	Soil
Project Name:	CORRAL CANYON FED 4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-P SEC.5,T25S,R29E		

Sample ID: SP1 (SURFACE) (H601228-01)

BTEX 8260B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	0.272	0.200	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.200	0.200	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	1.07	0.600	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEX	1.35	1.20	06/09/2016	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	96.3	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	103	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	33200	16.0	06/07/2016	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	23200	100	06/07/2016	ND	183	91.6	200	14.1	
Surrogate: 1-Chlorooctane	57.0	% 35-147	7						
Surrogate: 1-Chlorooctadecane	1010	% 28-171	1						

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	06/06/2016	Sampling Date:	06/06/2016
Reported:	06/13/2016	Sampling Type:	Soil
Project Name:	CORRAL CANYON FED 4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-P SEC.5,T25S,R29E		

Sample ID: SP1 (1') (H601228-02)

BTEX 8260B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.050	0.050	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEX	<0.300	0.300	06/09/2016	ND					
Surrogate: Dibromofluoromethane	103	% 90.4-11	1						
Surrogate: Toluene-d8	101	85.3-11	4						
Surrogate: 4-Bromofluorobenzene	101	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/07/2016	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	12.7	10.0	06/07/2016	ND	183	91.6	200	14.1	
Surrogate: 1-Chlorooctane	62.6	% 35-147	7						
Surrogate: 1-Chlorooctadecane	86.2	% 28-171	,						

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*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	06/06/2016	Sampling Date:	06/06/2016
Reported:	06/13/2016	Sampling Type:	Soil
Project Name:	CORRAL CANYON FED 4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-P SEC.5,T25S,R29E		

Sample ID: SP2 (SURFACE) (H601228-03)

BTEX 8260B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.200	0.200	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.200	0.200	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.600	0.600	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEX	<1.20	1.20	06/09/2016	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	97.2	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	100	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34800	16.0	06/07/2016	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	6080	100	06/07/2016	ND	183	91.6	200	14.1	
Surrogate: 1-Chlorooctane	46.2	% 35-147	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	06/06/2016	Sampling Date:	06/06/2016
Reported:	06/13/2016	Sampling Type:	Soil
Project Name:	CORRAL CANYON FED 4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-P SEC.5,T25S,R29E		

Sample ID: SP2 (1') (H601228-04)

BTEX 8260B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.050	0.050	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEX	<0.300	0.300	06/09/2016	ND					
Surrogate: Dibromofluoromethane	104	% 90.4-11	1						
Surrogate: Toluene-d8	97.9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	99.6	% 80.1-12	1						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/07/2016	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	<10.0	10.0	06/07/2016	ND	183	91.6	200	14.1	
Surrogate: 1-Chlorooctane	62.2	% 35-147	7						
Surrogate: 1-Chlorooctadecane	88.0	% 28-171	,						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

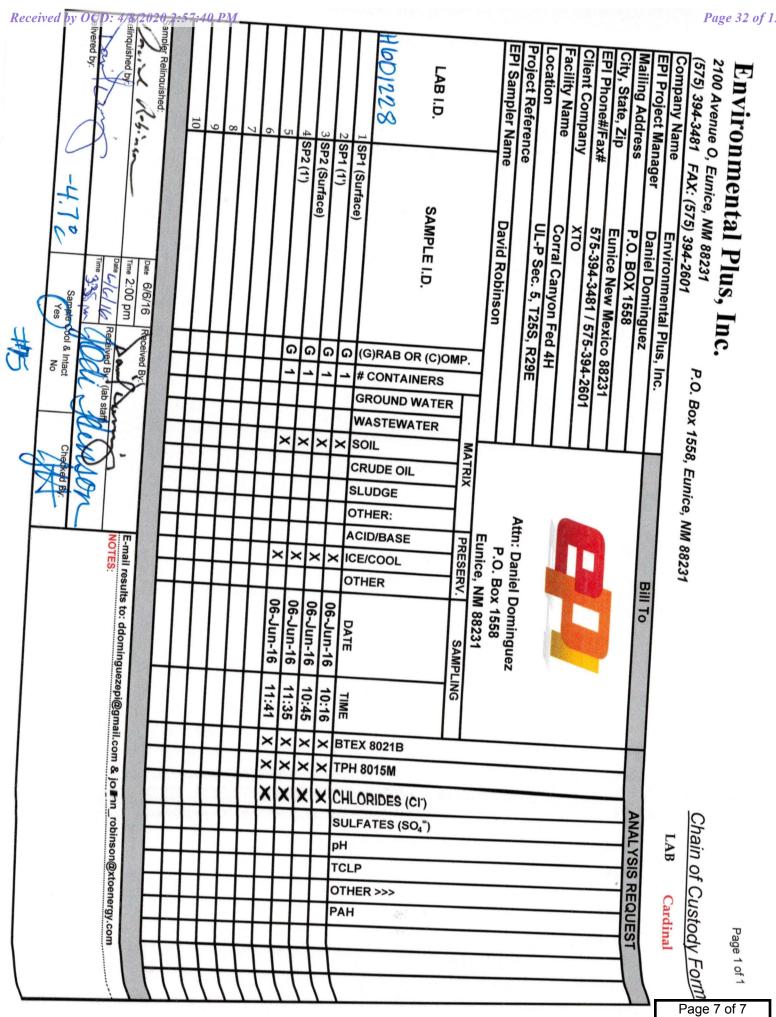
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.					
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.					
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.					
ND	Analyte NOT DETECTED at or above the reporting limit					
RPD	Relative Percent Difference					
**	Samples not received at proper temperature of 6°C or below.					
***	Insufficient time to reach temperature.					
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C					
	Samples reported on an as received basis (wet) unless otherwise noted on report					

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Celey D. Keene, Lab Director/Quality Manager



Page 32 of 123

From:	Patterson, Heather, EMNRD
То:	"Daniel Dominguez"; Robinson, John
Subject:	RE: Corral Canyon Federal #4H
Date:	Friday, June 17, 2016 2:16:00 PM
Subject:	RE: Corral Canyon Federal #4H

Was SP2 included in the 1' excavation or the 6" excavation?

Heather Patterson Environmental Specialist NMOCD District II Office (575)748-1283 ext.101 Cell (575)703-0228

From: Daniel Dominguez [mailto:ddominguezepi@gmail.com]
Sent: Thursday, June 16, 2016 11:54 AM
To: Patterson, Heather, EMNRD; Robinson, John
Subject: Corral Canyon Federal #4H

Heather,

Attached is the Sample Map and Analytical Data for the Corral Canyon Federal #4H, operated by XTO. The release area around the well head has been excavated 1 foot with the remaining area excavated 6 inches.

Laboratory analytical data indicates the excavation to be void of BTEX, TPH and Chloride in excess of NMOCD RRALs.

EPI proposes to backfill the excavation with clean soil and submit a Final Closure Report to NMOCD and XTO.

Sincerely, ENVIRONMENTAL PLUS, INC.

Daniel Dominguez Environmental Consultant/Safety Director

Environmental Plus, Inc. P.O. Box 1558 2100 Avenue 'O' Eunice, NM 88231 (575) 631-0401 (Cell) (575) 394-3481 (Office) (575) 394-2601 (fax)

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LT Environmental, Inc.		508 Wes arlsbad, I	ronmenta st Stevens New Mexic Engineering	Identifier: PH01 Project Name: Corral Canyon 4H (on 16H Pad)	Date: 10/29/19 RP Number: 2RP-3713					
	LITHOLOGI			Logged By: Anna Byers	Method: Backhoe					
Field Screening: HA	CH Chloride Test	Strips and I	MiniRAE PI	Hole Diameter: N/A	Total Depth: 2 feet					
Comments:										
Moisture Content Chloride (ppm)	Vapor (ppm) Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type		Lithology/Remarks			
Dry 1320 Moist 312	0 No 0 No	PH01		0.5		e Pad surface caliche, no odor Brown, poorly-sorted sand (m.) with silt; no odor, no plasticity				
Moist 312	0 No	PH01A	2	2	SM	Brown, p	oorly-sorted sand (m.) with s Total Depth	silt; no odor, no plasticity		
	Moist 312 0 No PH01A 2 2 SM Brown, poorly-s I <t< td=""><td></td></t<>									

LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation							Identifier: PH02 Project Name: Corral Canyon 4H (on 16H Pad)	Date: 10/29/19 RP Number: 2RP-3713					
E-14 Car	LITHOLOGIC / SOIL SAMPLING LOG Field Screening: HACH Chloride Test Strips and MiniRAE PID								Logged By: Anna Byers	Method: Backhoe			
Field Scr	eening: HA	CH Chior	ide Test S	strips and r	AINIKAE PI	D			Hole Diameter: N/A	Total Depth: 2 feet			
Commen	Comments:												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type		Lithology/Remarks				
Dry Moist	4256 2512	0 0	No No	PH02	- 1 -	0.5	SM	e Pad surface caliche, no odor Brown, poorly-sorted sand (m.) with silt; no odor, no plasticity					
Moist	488	0	No	PH02A	2	2	SM	Brown, p	oorly-sorted sand (m.) with Total Depth	silt; no odor, no plasticity			
	Moist 488 0 No PH02A 2 2 SM Brown, 3 -												

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Advancing	mental, Inc.		Ca	508 Wes rlsbad, N	ronmenta t Stevens lew Mexi ingineering	Identifier: PH03 Project Name: Corral Canyon 4H (on 16H Pad)	Date: 10/29/19 RP Number: 2RP-3713			
						LING LO)G		Logged By: Anna Byers	Method: Backhoe
Field Scr	eening: HA	CH Chlor	ide Test S	Strips and M	/liniRAE Pl		Hole Diameter: N/A	Total Depth: 2 feet		
Comment	ts:									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type		Lithology/R	emarks
Dry Moist	244 1228	0 0	No No	РН03	0	0.5			ce caliche, no odor oorly-sorted sand (m.) with	silt; no odor, no plasticity
Moist	488	0	No	PH03A	2	2	SM	Brown, p	oorly-sorted sand (m.) with Total Depth	silt; no odor, no plasticity
					3 4 5 6 7 8 9 10 11					

Advancing	mental, Inc.		Ca	508 Wes rlsbad, N	ronmenta It Stevens Iew Mexic Ingineering	s Street co 88220		Identifier: PH04 Project Name: Corral Canyon 4H (on 16H Pad)	Date: 10/29/19 RP Number: 2RP-3713				
					L SAMPI)G		Logged By: Anna Byers	Method: Backhoe			
Field Scr	eening: HA	CH Chlor	ide Test S	trips and M	/liniRAE PI		Hole Diameter: N/A	Total Depth: 2 feet					
Commen	ts: BDL - E	Below Dete	ection Lin	nit					•				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type		Lithology/Remarks				
Dry Moist	BDL BDL	0 0	No No	PH04	0	0.5			ce caliche, no odor poorly-sorted sand (m.) with s	silt; no odor, no plasticity			
					-	•							
Moist	BDL	0	No	PH04A	2	2	SM	Brown, p	oorly-sorted sand (m.) with s	silt; no odor, no plasticity			
					3 -4 -5 -6 -7 -8 -7 -8 -7 -10 -11 -12 -12				Total Depth				

	a Opportunity		Ca	508 Wes rlsbad, N	ronment t Stevens lew Mexi ingineering	Identifier: PH05 Project Name: Corral Canyon 4H (on 16H Pad)	Date: 10/29/19 RP Number: 2RP-3713							
					L SAMP		OG		Logged By: Anna Byers	Method: Backhoe				
Field Scr	eening: HA	CH Chlori	ide Test S	trips and N	/liniRAE Pl		Hole Diameter: N/A	Total Depth: 2 feet						
Commen	ts: BDL - E	elow Dete	ction Lin	nit										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type		Lithology/Re	emarks				
Dry Moist	BDL BDL	0 0	No No	PH05	0	0.5			ace caliche, no odor poorly-sorted sand (m.) with s	silt; no odor, no plasticity				
Moist	BDL	0	No	PH05A	2	2	SM	Brown n	oorly-sorted sand (m) with s	silt: no odor, no plasticity				
Worst	DDL	0	110	1110071		-	5141	Drown, p	Brown, poorly-sorted sand (m.) with silt; no odor, no plasticity Total Depth					
					3 4 5 6 7 8 9 10 11									

Advancing	mental, Inc.		Ca	508 Wes rlsbad, N	ronmenta It Stevens Iew Mexic Ingineering	s Street co 8822(Identifier: PH06 Project Name: Corral Canyon 4H (on 16H Pad)	Date: 10/29/19 RP Number: 2RP-3713				
					L SAMPI)G		Logged By: Anna Byers	Method: Backhoe			
Field Scr	eening: HA	CH Chlor	ide Test S	trips and M	/liniRAE PI		Hole Diameter: N/A	Total Depth: 2 feet					
Commen	ts: BDL - F	Below Dete	ection Lin	nit					•				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	(ft. bgs.)	Sample Depth	Soil/Rock Type		Lithology/Remarks				
Dry Moist	BDL BDL	0	No No	PH06	0	0.5			ce caliche, no odor oorly-sorted sand (m.) with s	silt; no odor, no plasticity			
		-			-	-		, i i i i i i i i i i i i i i i i i i i		., ,			
Moist	BDL	0	No	PH06A	2	2	SM	Brown, p	poorly-sorted sand (m.) with s	silt; no odor, no plasticity			
					-	-		Total Depth					
					3 - 4 4 - 5 6 - 7 7 - 6 7 - 7 8 - 7 10 - 7 11 - 7 11 - 7 12 - 7								

Advancing	Image: Constraint line. LT Environmental, Inc. 508 West Stevens Street 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation									Identifier: PH07 Project Name: Corral Canyon 4H (on 16H Pad)	Date: 10/29/19 RP Number: 2RP-3713			
					L SAMP)G		Logged By: Anna Byers	Method: Backhoe			
					MiniRAE P	ID		Hole Diameter: N/A	Total Depth: 2 feet					
Comment	ts: BDL - E	Below Dete	ection Lin	nit										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)		Sample Depth	Soil/Rock Type		Lithology/Rea	marks			
Dry Moist	BDL BDL	0 0	No No	PH07	-		0.5 Caliche Pad surf			surface caliche, no odor vn, poorly-sorted sand (m.) with silt; no odor, no plasticity				
Moist	BDL	0	No	PH07A	2	ł	2	SM	Brown, p	oorly-sorted sand (m.) with s Total Depth	ilt; no odor, no plasticity			
					3 4 5 6 7 8 9 10 11									

Advancing	mental, Inc.				ronment t Stevens lew Mexi			Identifier: PH08 Project Name: Corral Canyon 4H (on 16H Pad)	Date: 10/29/19 RP Number: 2RP-3713				
		LITHO	LOGIC	C / SOI	L SAMP	LING	LOG		Logged By: Anna Byers	Method: Backhoe			
Field Scre	eening: HA	CH Chlor	ide Test S	strips and M	MiniRAE P	Hole Diameter: N/A	Total Depth: 2 feet						
Comment	ts: BDL - E	Below Dete	ction Lin	nit									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)				Lithology/Re	marks			
Dry Dry	244 212	0 0	No No	PH08		Π	0.5 Caliche Pad surface caliche, no odor 1 Caliche Pad surface caliche, no odor						
Dry	BDL	0	No	PH08A	2	2	Calich	e Pad surfa	ace caliche, no odor				
						-		iche Pad surface caliche, no odor Total Depth					
					3 4 5 6 7 8 9 10 11								

F

Advancing	mental, Inc.		Ca	508 Wes rlsbad, N	ronmenta t Stevens lew Mexi ingineering	Identifier: PH09 Project Name: Corral Canyon 4H (on 16H Pad)	Date: 10/29/19 RP Number: 2RP-3713			
						LING LO)G		Logged By: Anna Byers	Method: Backhoe
Field Scr	eening: HA	CH Chlori	ide Test S	trips and M	/liniRAE Pl	D			Hole Diameter: N/A	Total Depth: 2 feet
Commen	ts:									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type		Lithology/R	emarks
Dry Moist	536 156	0 0	No No	РН09	1	0.5			ce caliche, no odor oorly-sorted sand (m.) with	silt; no odor, no plasticity
Moist	128	0	No	PH09A	2	2	SM	Brown, p	oorly-sorted sand (m.) with Total Depth	silt; no odor, no plasticity
					3 4 5 6 7 8 9 10 11					

•

ATTACHMENT 4: PHOTOGRAPHIC LOG



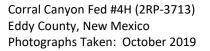
PHOTOGRAPHIC LOG



Photograph 1: View of wellhead and former release area, during assessment activities.



Photograph 2: View of wellhead and former release area, during assessment activities.







PHOTOGRAPHIC LOG



Photograph 3: View of open excavation.



Photograph 4: View of open excavation.

Corral Canyon Fed #4H (2RP-3713) Eddy County, New Mexico Photographs Taken: November 2019



PHOTOGRAPHIC LOG



Photograph 5: View of backfilled excavation.



Photograph 6: View of backfilled excavation.

Corral Canyon Fed #4H (2RP-3713) Eddy County, New Mexico Photographs Taken: November 2019



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for LT Environmental, Inc.

Project Manager: Aimee Cole

Corral Canyon 4H

012919124

05-NOV-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 (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)





05-NOV-19

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

Reference: XENCO Report No(s): 641857 **Corral Canyon 4H** 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) 641857. 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. 641857 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 Vramer

Jessica Kramer **Project Assistant**

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

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



.

Sample Cross Reference 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	10-29-19 10:30	0.5 ft	641857-001
PH01A	S	10-29-19 10:40	2 ft	641857-002
PH02	S	10-29-19 10:55	0.5 ft	641857-003
PH02A	S	10-29-19 11:05	2 ft	641857-004
PH03	S	10-29-19 11:30	0.5 ft	641857-005
PH03A	S	10-29-19 11:35	1 ft	641857-006
PH03B	S	10-29-19 11:40	2 ft	641857-007
PH04	S	10-29-19 11:55	0.5 ft	641857-008
PH04B	S	10-29-19 12:05	2 ft	641857-009
PH05	S	10-29-19 12:30	0.5 ft	641857-010
PH05A	S	10-29-19 12:40	2 ft	641857-011
PH06	S	10-29-19 13:00	0.5 ft	641857-012
PH06A	S	10-29-19 13:10	2 ft	641857-013
PH07	S	10-29-19 13:20	0.5 ft	641857-014
PH07A	S	10-29-19 13:30	2 ft	641857-015
PH08	S	10-29-19 13:45	0.5 ft	641857-016
PH08A	S	10-29-19 13:55	2 ft	641857-017
PH09	S	10-29-19 14:00	0.5 ft	641857-018
PH09A	S	10-29-19 14:05	2 ft	641857-019



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Corral Canyon 4H

 Project ID:
 012919124

 Work Order Number(s):
 641857

Report Date: 05-NOV-19 Date Received: 11/01/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3106342 BTEX by EPA 8021B

Lab Sample ID 641857-014 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 641857-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019.

The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

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

Batch: LBA-3106466 Chloride by EPA 300

Lab Sample ID 641857-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 641857-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3106467 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 641857-012,641857-007,641857-013,641857-002.

Surrogate 1-Chlorooctane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 641857-012,641857-013.



Project Id:	012919124
Contact:	Aimee Cole
Project Location:	Rural Eddy County

Certificate of Analysis Summary 641857

LT Environmental, Inc., Arvada, CO Project Name: Corral Canyon 4H

Date Received in Lab: Fri Nov-01-19 01:59 pm Report Date: 05-NOV-19 Project Manager: Jessica Kramer

	Lab Id:	641857-	001	641857-	002	641857-0	003	641857-	004	641857-0	005	641857-0	006	
Are alian Do an anto d	Field Id:	PH01	l	PH01.	4	PH02		PH02	4	PH03		PH034	4	
Analysis Requested	Depth:	0.5- f	0.5- ft		2- ft		t	2- ft		0.5- f	t	1- ft		
	Matrix:	SOIL		SOIL	,	SOIL	,	SOIL	,	SOIL		SOIL		
	Sampled:	Oct-29-19	10:30	Oct-29-19	10:40	Oct-29-19	10:55	Oct-29-19	11:05	Oct-29-19	11:30	Oct-29-19	11:35	
BTEX by EPA 8021B	Extracted:	Nov-01-19	Nov-01-19 18:11		Nov-01-19 18:11		Nov-01-19 18:11		Nov-01-19 18:11		Nov-01-19 18:11		Nov-01-19 18:11	
	Analyzed:	Nov-02-19	09:13	Nov-02-19	09:32	Nov-02-19	09:51	Nov-02-19	10:11	Nov-02-19	10:30	Nov-02-19	10:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00962	0.00962	< 0.000994	0.000994	< 0.000990	0.000990	<0.000998	0.000998	
Toluene		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00962	0.00962	< 0.000994	0.000994	<0.000990	0.000990	<0.000998	0.000998	
Ethylbenzene		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00962	0.00962	< 0.000994	0.000994	<0.000990	0.000990	<0.000998	0.000998	
m,p-Xylenes		< 0.00201	0.00201	< 0.00201	0.00201	< 0.0192	0.0192	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200	
o-Xylene		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00962	0.00962	0.0412	0.000994	<0.000990	0.000990	<0.000998	0.000998	
Total Xylenes		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00962	0.00962	0.0412	0.000994	<0.000990	0.000990	<0.000998	0.000998	
Total BTEX		< 0.00100	0.00100	< 0.00101	0.00101	< 0.00962	0.00962	0.0412	0.000994	<0.000990	0.000990	<0.000998	0.000998	
Chloride by EPA 300	Extracted:	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	
	Analyzed:	Nov-05-19	08:27	Nov-05-19	08:45	Nov-05-19	08:51	Nov-05-19	08:57	Nov-05-19	09:03	Nov-05-19	09:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		1390	49.4	343	9.96	2810	99.6	474	9.98	303	10.1	205	10.1	
TPH by SW8015 Mod	Extracted:	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	
	Analyzed:	Nov-05-19 01:12		Nov-05-19	02:13	Nov-05-19	11:47	Nov-05-19	02:53	Nov-05-19	12:07	Nov-05-19	03:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	<49.8	49.8	<251	251	<50.0	50.0	<50.3	50.3	<50.0	50.0	
Diesel Range Organics (DRO)		<50.2	50.2	<49.8	49.8	9890	251	<50.0	50.0	<50.3	50.3	<50.0	50.0	
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<49.8	49.8	1460	251	64.3	50.0	<50.3	50.3	<50.0	50.0	
Total GRO-DRO		<50.2	50.2	<49.8	49.8	9890	251	<50.0	50.0	<50.3	50.3	<50.0	50.0	
Total TPH		<50.2	50.2	<49.8	49.8	11400	251	64.3	50.0	<50.3	50.3	<50.0	50.0	

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

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

fession kramer

Jessica Kramer Project Assistant

Page 5 of 51



Project Id:012919124Contact:Aimee ColeProject Location:Rural Eddy County

Certificate of Analysis Summary 641857

LT Environmental, Inc., Arvada, CO Project Name: Corral Canyon 4H

Date Received in Lab: Fri Nov-01-19 01:59 pm Report Date: 05-NOV-19 Project Manager: Jessica Kramer

	Lab Id:	641857-0	007	641857-0	08	641857-0)09	641857-0	010	641857-0	011	641857-	012
Analysis Boay ostad	Field Id:	PH03E	PH03B			PH04I	3	PH05		PH05/	4	PH06	ō
Analysis Requested	Depth:	2- ft		0.5- ft		2- ft		0.5- ft		2- ft		0.5- ft	
	Matrix:	SOIL	SOIL			SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-29-19	11:40	Oct-29-19	1:55	Oct-29-19	12:05	Oct-29-19	12:30	Oct-29-19	12:40	Oct-29-19	13:00
BTEX by EPA 8021B	Extracted:	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19	18:11
	Analyzed:	Nov-02-19	11:08	Nov-02-19	11:27	Nov-02-19	11:46	Nov-02-19	12:50	Nov-02-19	13:09	Nov-02-19	13:29
	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	< 0.000994	0.000994	< 0.000996	0.000996	<0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100
Toluene		< 0.00101	0.00101	<0.000994	0.000994	< 0.000996	0.000996	<0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100
Ethylbenzene		< 0.00101	0.00101	< 0.000994	0.000994	< 0.000996	0.000996	<0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100
m,p-Xylenes		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201
o-Xylene		< 0.00101	0.00101	< 0.000994	0.000994	< 0.000996	0.000996	<0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100
Total Xylenes		< 0.00101	0.00101	< 0.000994	0.000994	< 0.000996	0.000996	<0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100
Total BTEX		< 0.00101	0.00101	< 0.000994	0.000994	< 0.000996	0.000996	<0.000998	0.000998	< 0.00101	0.00101	< 0.00100	0.00100
Chloride by EPA 300	Extracted:	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19	07:30
	Analyzed:	Nov-05-19	09:27	Nov-05-19	09:33	Nov-05-19	09:39	Nov-05-19	09:45	Nov-05-19	09:51	Nov-05-19	10:09
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		531	10.1	68.7	10.0	38.3	10.0	42.4	9.98	41.3	9.92	24.2	9.98
TPH by SW8015 Mod	Extracted:	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00
	Analyzed:	Nov-05-19	03:54	Nov-05-19	04:14	Nov-05-19	04:34	Nov-05-19	04:54	Nov-05-19	05:34	Nov-05-19	05:54
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.3	50.3	<49.9	49.9	<50.2	50.2	<49.9	49.9	<50.3	50.3
Diesel Range Organics (DRO)		<50.2	50.2	<50.3	50.3	<49.9	49.9	<50.2	50.2	<49.9	49.9	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.3	50.3	<49.9	49.9	<50.2	50.2	<49.9	49.9	<50.3	50.3
Total GRO-DRO		<50.2	50.2	<50.3	50.3	<49.9	49.9	<50.2	50.2	<49.9	49.9	<50.3	50.3
Total TPH		<50.2	50.2	<50.3	50.3	<49.9	49.9	<50.2	50.2	<49.9	49.9	<50.3	50.3

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

fession kenner

Jessica Kramer Project Assistant

Page 6 of 51



Project Id:	012919124
Contact:	Aimee Cole
Project Location:	Rural Eddy County

Certificate of Analysis Summary 641857

LT Environmental, Inc., Arvada, CO Project Name: Corral Canyon 4H

Date Received in Lab: Fri Nov-01-19 01:59 pm Report Date: 05-NOV-19 Project Manager: Jessica Kramer

	Lab Id:	641857-0)13	641857-	014	641857-	015	641857-0	016	641857-	017	641857-	018
A se aluaia Da assasta d	Field Id:	PH06A	A	PH07		PH07.	4	PH08		PH084	A	PH09)
Analysis Requested	Depth:	2- ft		0.5- ft		2- ft		0.5- f	t	2- ft		0.5- ft	
	Matrix:	SOIL		SOIL	SOIL		SOIL		SOIL		SOIL		
	Sampled:	Oct-29-19	ct-29-19 13:10 C		Oct-29-19 13:20 Oct-29-19 13:30		Oct-29-19 13:45		Oct-29-19 13:55		Oct-29-19 14:0		
BTEX by EPA 8021B	Extracted:	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19	18:11	Nov-01-19 18:11		Nov-01-19 18:11	
	Analyzed:	Nov-02-19	13:48	Nov-02-19	08:54	Nov-02-19	14:07	Nov-02-19	14:26	Nov-02-19	14:45	Nov-02-19	15:04
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.000988	0.000988	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101
Toluene		< 0.000988	0.000988	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101
Ethylbenzene		< 0.000988	0.000988	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101
m,p-Xylenes		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00202	0.00202
o-Xylene		< 0.000988	0.000988	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101
Total Xylenes		< 0.000988	0.000988	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101
Total BTEX		< 0.000988	0.000988	< 0.00100	0.00100	< 0.000998	0.000998	< 0.00100	0.00100	< 0.00101	0.00101	< 0.00101	0.00101
Chloride by EPA 300	Extracted:	Nov-05-19	07:30	Nov-05-19 07:30		Nov-05-19	07:30	Nov-05-19	07:30	Nov-05-19 07:30		Nov-05-19	07:30
	Analyzed:	Nov-05-19	10:15	Nov-05-19	10:33	Nov-05-19 10:39		Nov-05-19 10:45		Nov-05-19 10:51		Nov-05-19 10:57	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		65.7	50.4	34.1	10.0	23.2	10.1	707	20.2	54.6	9.98	635	49.8
TPH by SW8015 Mod	Extracted:	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00	Nov-04-19	17:00
	Analyzed:	Nov-05-19	06:14	Nov-05-19	06:34	Nov-05-19	06:54	Nov-05-19	07:14	Nov-05-19	07:34	Nov-05-19	07:54
	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	<50.0	50.0	<50.3	50.3	<50.2	50.2	<49.8	49.8	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<50.3	50.3	<50.2	50.2	<49.8	49.8	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<50.3	50.3	<50.2	50.2	<49.8	49.8	<49.9	49.9
Total GRO-DRO		<50.0	50.0	<50.0	50.0	<50.3	50.3	<50.2	50.2	<49.8	49.8	<49.9	49.9
Total TPH		<50.0	50.0	<50.0	50.0	<50.3	50.3	<50.2	50.2	<49.8	49.8	<49.9	49.9

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Jessica Kramer Project Assistant

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Project Id:012919124Contact:Aimee ColeProject Location:Rural Eddy County

Certificate of Analysis Summary 641857

LT Environmental, Inc., Arvada, CO Project Name: Corral Canyon 4H

Date Received in Lab:Fri Nov-01-19 01:59 pmReport Date:05-NOV-19Project Manager:Jessica Kramer

Lab Id:	641857-019					
Field Id:	PH09A					
Depth:	2- ft					
Matrix:	SOIL					
Sampled:	Oct-29-19 14:05					
Extracted:	Nov-01-19 18:11					
Analyzed:	Nov-02-19 15:24					
Units/RL:	mg/kg RL					
	<0.000998 0.000998					
	<0.000998 0.000998					
	<0.000998 0.000998					
	<0.00200 0.00200					
	<0.000998 0.000998					
	<0.000998 0.000998					
	<0.000998 0.000998					
Extracted:	Nov-05-19 07:30					
Analyzed:	Nov-05-19 11:03					
Units/RL:	mg/kg RL					
	123 9.94					
Extracted:	Nov-04-19 17:00					
Analyzed:	Nov-05-19 08:14					
Units/RL:	mg/kg RL					
1	<49.8 49.8					
	<49.8 49.8					
	<49.8 49.8					
	<49.8 49.8					
	<49.8 49.8					
	Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed:	Field Id: PH09A Depth: 2- ft Matrix: SOIL Sampled: Oct-29-19 14:05 Extracted: Nov-01-19 18:11 Analyzed: Nov-02-19 15:24 Units/RL: mg/kg RL <	Field Id: PH09A Depth: 2- ft Matrix: SOIL Sampled: Oct-29-19 14:05 Extracted: Nov-01-19 18:11 Analyzed: Nov-02-19 15:24 Units/RL: mg/kg RL <	Field Id: PH09A Depth: 2- ft Matrix: SOIL Sampled: Oct-29-19 14:05 Extracted: Nov-01-19 18:11 Analyzed: Nov-02-19 15:24 Units/RL: mg/kg RL <0.000998	Field Id: PH09A Depth: 2- ft Matrix: SOIL Sampled: Oct-29-19 14:05 Extracted: Nov-01-19 18:11 Analyzed: Nov-02-19 15:24 Units/RL: mg/kg RL <0.000998	Field Id: PH09A Depth: 2- ft Matrix: SOIL Sampled: Oct-29-19 14:05 Extracted: Nov-01-19 18:11 Analyzed: Nov-02-19 15:24 Units/RL: mg/kg RL < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.00098 0.00098 < 0.000998 0.00098 < 0

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Jessica Kramer Project Assistant

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LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id:	PH01		Matrix:	Soil		Date Received:11.	01.19 13.5	9
Lab Sample I	d: 641857-001		Date Collec	cted: 10.29.19 10.30		Sample Depth: 0.5	ft	
Analytical Me	ethod: Chloride by EPA	300				Prep Method: E30	00P	
Tech:	MAB					% Moisture:		
Analyst:	MAB		Date Prep:	11.05.19 07.30		Basis: We	t Weight	
Seq Number:	3106466							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	1390	49.4	mg/kg	11.05.19 08.27		5

Analytical Method: TPH by SW801	5 Mod			Ι	Prep Method: SW	8015P	
Tech: DTH				ç	% Moisture:		
Analyst: DTH		Date Prep:	11.04.19 17.00	I	Basis: We	t Weight	
Seq Number: 3106467							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.05.19 01.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2	mg/kg	11.05.19 01.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.05.19 01.12	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	11.05.19 01.12	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.05.19 01.12	U	1

		%	.		Flag	
Surrogate	Cas Number	Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-135	11.05.19 01.12	
o-Terphenyl	84-15-1	76	%	70-135	11.05.19 01.12	



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH01	Matrix: Soil	Date Received:11.01.19 13.59
Lab Sample Id: 641857-001	Date Collected: 10.29.19 10.30	Sample Depth: 0.5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight
Seq Number: 3106342		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	11.02.19 09.13	U	1
Toluene	108-88-3	< 0.00100	0.00100		mg/kg	11.02.19 09.13	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	11.02.19 09.13	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	11.02.19 09.13	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	11.02.19 09.13	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100		mg/kg	11.02.19 09.13	U	1
Total BTEX		< 0.00100	0.00100		mg/kg	11.02.19 09.13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	117	%	70-130	11.02.19 09.13		
1,4-Difluorobenzene		540-36-3	100	%	70-130	11.02.19 09.13		



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Certificate of Analytical Results 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id:	PH01A d: 641857-002		Matrix:	Soil cted: 10.29.19 10.40		Date Received:11.0 Sample Depth: 2 ft		9
-	ethod: Chloride by EPA	300	Date Colle	cted: 10.29.19 10.40		Prep Method: E30		
Tech:	MAB	500				% Moisture:		
Analyst:	MAB		Date Prep:	11.05.19 07.30]	Basis: We	t Weight	
Seq Number:	3106466							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	343	9.96	mg/kg	11.05.19 08.45		1

Analytical Method: TPH by SW801	5 Mod			I	Prep Method: SW	8015P	
Tech: DTH				ç	% Moisture:		
Analyst: DTH		Date Prep:	11.04.19 17.00	I	Basis: Wet	t Weight	
Seq Number: 3106467							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.05.19 02.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.05.19 02.13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.05.19 02.13	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	11.05.19 02.13	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.05.19 02.13	U	1

	1110000	(1)10	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			11100119 02110	U	
Surrogate		Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	134	%	70-135	11.05.19 02.13		
o-Terphenyl		84-15-1	142	%	70-135	11.05.19 02.13	**	



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH01A	Matrix: Soil	Date Received:11.01.19 13.59
Lab Sample Id: 641857-002	Date Collected: 10.29.19 10.40	Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight
Seq Number: 3106342		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	11.02.19 09.32	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	11.02.19 09.32	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	11.02.19 09.32	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	11.02.19 09.32	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	11.02.19 09.32	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	11.02.19 09.32	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	11.02.19 09.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	124	%	70-130	11.02.19 09.32		
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.02.19 09.32		



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Certificate of Analytical Results 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id:	PH02		Matrix:	Soil]	Date Received:11.	01.19 13.5	9
Lab Sample I	d: 641857-003		Date Colle	ected: 10.29.19 10.55	:	Sample Depth: 0.5	ft	
Analytical M	ethod: Chloride by EP	A 300]	Prep Method: E30)0P	
Tech:	MAB					% Moisture:		
Analyst:	MAB		Date Prepa	11.05.19 07.30]	Basis: We	t Weight	
Seq Number:	3106466							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	2810	99.6	mg/kg	11.05.19 08.51		10

Analytical Method: TPH by SW801	5 Mod				Р	rep Method: SW	8015P	
Tech: DTH					%	6 Moisture:		
Analyst: DTH		Date Prep	p: 11.04.	19 17.00	В	asis: We	t Weight	
Seq Number: 3106467								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<251	251		mg/kg	11.05.19 11.47	U	5
Diesel Range Organics (DRO)	C10C28DRO	9890	251		mg/kg	11.05.19 11.47		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1460	251		mg/kg	11.05.19 11.47		5
Total GRO-DRO	PHC628	9890	251		mg/kg	11.05.19 11.47		5
Total TPH	PHC635	11400	251		mg/kg	11.05.19 11.47		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	104	%	70-135	11.05.19 11.47		
o-Terphenyl		84-15-1	107	%	70-135	11.05.19 11.47		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH02	Matrix: Soil	Date Received:11.01.19 13.59
Lab Sample Id: 641857-003	Date Collected: 10.29.19 10.55	Sample Depth: 0.5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight
Seq Number: 3106342		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00962	0.00962		mg/kg	11.02.19 09.51	U	1
Toluene	108-88-3	< 0.00962	0.00962		mg/kg	11.02.19 09.51	U	1
Ethylbenzene	100-41-4	< 0.00962	0.00962		mg/kg	11.02.19 09.51	U	1
m,p-Xylenes	179601-23-1	< 0.0192	0.0192		mg/kg	11.02.19 09.51	U	1
o-Xylene	95-47-6	< 0.00962	0.00962		mg/kg	11.02.19 09.51	U	1
Total Xylenes	1330-20-7	< 0.00962	0.00962		mg/kg	11.02.19 09.51	U	1
Total BTEX		< 0.00962	0.00962		mg/kg	11.02.19 09.51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	114	%	70-130	11.02.19 09.51		
1,4-Difluorobenzene		540-36-3	102	%	70-130	11.02.19 09.51		



o-Terphenyl

.

Certificate of Analytical Results 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH02A		Matrix:	Soil		Date Received:11.	01.19 13.5	9
Lab Sample Id: 641857-004		Date Colle	cted: 10.29.19 11.05		Sample Depth: 2 ft		
Analytical Method: Chloride by EPA	300				Prep Method: E3	90P	
Tech: MAB					% Moisture:		
Analyst: MAB		Date Prep:	11.05.19 07.30		Basis: We	t Weight	
Seq Number: 3106466							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	474	9.98	mg/kg	11.05.19 08.57		1

Analytical Method: TPH by SW8013	5 Mod				Р	rep Method: SW	8015P	
Tech: DTH					%	6 Moisture:		
Analyst: DTH		Date Prep	p: 11.04.1	9 17.00	В	asis: We	t Weight	
Seq Number: 3106467								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	11.05.19 02.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	11.05.19 02.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	64.3	50.0		mg/kg	11.05.19 02.53		1
Total GRO-DRO	PHC628	<50.0	50.0		mg/kg	11.05.19 02.53	U	1
Total TPH	PHC635	64.3	50.0		mg/kg	11.05.19 02.53		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	11.05.19 02.53		

84-15-1

97

%

70-135

11.05.19 02.53



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH02A	Matrix: Soil	Date Received:11.01.19 13.59
Lab Sample Id: 641857-004	Date Collected: 10.29.19 11.05	Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight
Seq Number: 3106342		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000994	0.000994		mg/kg	11.02.19 10.11	U	1
Toluene	108-88-3	< 0.000994	0.000994		mg/kg	11.02.19 10.11	U	1
Ethylbenzene	100-41-4	< 0.000994	0.000994		mg/kg	11.02.19 10.11	U	1
m,p-Xylenes	179601-23-1	< 0.00199	0.00199		mg/kg	11.02.19 10.11	U	1
o-Xylene	95-47-6	0.0412	0.000994		mg/kg	11.02.19 10.11		1
Total Xylenes	1330-20-7	0.0412	0.000994		mg/kg	11.02.19 10.11		1
Total BTEX		0.0412	0.000994		mg/kg	11.02.19 10.11		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	11.02.19 10.11		
1,4-Difluorobenzene		540-36-3	102	%	70-130	11.02.19 10.11		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id:	PH03		Matrix:	Soil		Date Received:11.		9
Lab Sample I	d: 641857-005		Date Colle	cted: 10.29.19 11.30		Sample Depth: 0.5	ft	
Analytical Me	ethod: Chloride by EPA	300]	Prep Method: E30	90P	
Tech:	MAB				Q	% Moisture:		
Analyst:	MAB		Date Prep:	11.05.19 07.30]	Basis: We	t Weight	
Seq Number:	3106466							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	303	10.1	mg/kg	11.05.19 09.03		1

Analytical Method: TPH by SW80 Tech: DTH	15 Mod				Prep Method: SW % Moisture:	/8015P	
Analyst: DTH		Date Prep:	11.04.19 17.00]	Basis: We	t Weight	
Seq Number: 3106467		-					
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.05.19 12.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.05.19 12.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.05.19 12.07	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	11.05.19 12.07	U	1

Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3		mg/kg	11.05.19 12.07	U	1	
Total GRO-DRO	PHC628	<50.3	50.3		mg/kg	11.05.19 12.07	U	1	
Total TPH	PHC635	<50.3	50.3		mg/kg	11.05.19 12.07	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	103	%	70-135	11.05.19 12.07			
		111-03-3	105	70	70-155	11.05.19 12.07			
o-Terphenyl		84-15-1	110	%	70-135	11.05.19 12.07			



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH03	Matrix: Soil	Date Received:11.01.19 13.59
Lab Sample Id: 641857-005	Date Collected: 10.29.19 11.30	Sample Depth: 0.5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight
Seq Number: 3106342		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000990	0.000990		mg/kg	11.02.19 10.30	U	1
Toluene	108-88-3	< 0.000990	0.000990		mg/kg	11.02.19 10.30	U	1
Ethylbenzene	100-41-4	< 0.000990	0.000990		mg/kg	11.02.19 10.30	U	1
m,p-Xylenes	179601-23-1	< 0.00198	0.00198		mg/kg	11.02.19 10.30	U	1
o-Xylene	95-47-6	< 0.000990	0.000990		mg/kg	11.02.19 10.30	U	1
Total Xylenes	1330-20-7	< 0.000990	0.000990		mg/kg	11.02.19 10.30	U	1
Total BTEX		< 0.000990	0.000990		mg/kg	11.02.19 10.30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	124	%	70-130	11.02.19 10.30		
1,4-Difluorobenzene		540-36-3	103	%	70-130	11.02.19 10.30		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id:	PH03A		Matrix:	Soil		Date Received:11	.01.19 13.5	9
Lab Sample Io	d: 641857-006		Date Colle	cted: 10.29.19 11.35		Sample Depth: 1 f	ť	
Analytical Me	ethod: Chloride by EPA	300				Prep Method: E3	00P	
Tech:	MAB					% Moisture:		
Analyst:	MAB		Date Prep:	11.05.19 07.30		Basis: We	et Weight	
Seq Number:	3106466							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	205	10.1	mg/kg	11.05.19 09.21		1

Analytical Method: TPH by SW801	5 Mod	Prep Method: SW80				8015P	
Tech: DTH				Q	% Moisture:		
Analyst: DTH		Date Prep:	11.04.19 17.00]	Basis: We	t Weight	
Seq Number: 3106467							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.05.19 03.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.05.19 03.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.05.19 03.33	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	11.05.19 03.33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.05.19 03.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	11.05.19 03.33	
o-Terphenyl	84-15-1	94	%	70-135	11.05.19 03.33	



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH03A	Matrix: Soil	Date Received:11.01.19 13.59
Lab Sample Id: 641857-006	Date Collected: 10.29.19 11.35	Sample Depth: 1 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight
Seq Number: 3106342		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000998	0.000998		mg/kg	11.02.19 10.49	U	1
Toluene	108-88-3	< 0.000998	0.000998		mg/kg	11.02.19 10.49	U	1
Ethylbenzene	100-41-4	< 0.000998	0.000998		mg/kg	11.02.19 10.49	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	11.02.19 10.49	U	1
o-Xylene	95-47-6	< 0.000998	0.000998		mg/kg	11.02.19 10.49	U	1
Total Xylenes	1330-20-7	< 0.000998	0.000998		mg/kg	11.02.19 10.49	U	1
Total BTEX		< 0.000998	0.000998		mg/kg	11.02.19 10.49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	11.02.19 10.49		
4-Bromofluorobenzene		460-00-4	117	%	70-130	11.02.19 10.49		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id:	PH03B		Matrix:	Soil		Date Received:11.		9
	d: 641857-007		Date Colle	cted: 10.29.19 11.40		Sample Depth: 2 ft		
Analytical Me	ethod: Chloride by EPA	300				Prep Method: E30	00P	
Tech:	MAB					% Moisture:		
Analyst:	MAB		Date Prep:	11.05.19 07.30	1	Basis: We	t Weight	
Seq Number:	3106466							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	531	10.1	mg/kg	11.05.19 09.27		1

Analytical Method: TPH by SW80 Tech: DTH	15 Mod				Prep Method: S % Moisture:	SW8015P	
Analyst: DTH Seq Number: 3106467		Date Prep:	11.04.19 17.00]	Basis: V	Wet Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.05.19 03.54	l U	1

o-Terphenyl		84-15-1	144	%	70-135	11.05.19 03.54	**		
1-Chlorooctane		111-85-3	135	%	70-135	11.05.19 03.54			
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag		
			%						
Total TPH	PHC635	< 50.2	50.2		mg/kg	11.05.19 03.54	U	1	
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	11.05.19 03.54	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	11.05.19 03.54	U	1	
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	11.05.19 03.54	U	1	
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	11.05.19 03.54	U	1	



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH03B	Matrix: Soil	Date Received:11.01.19 13.59		
Lab Sample Id: 641857-007	Date Collected: 10.29.19 11.40	Sample Depth: 2 ft		
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B		
Tech: MAB		% Moisture:		
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight		
Seq Number: 3106342				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	11.02.19 11.08	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	11.02.19 11.08	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	11.02.19 11.08	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	11.02.19 11.08	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	11.02.19 11.08	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	11.02.19 11.08	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	11.02.19 11.08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	95	%	70-130	11.02.19 11.08		
4-Bromofluorobenzene		460-00-4	115	%	70-130	11.02.19 11.08		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: Lab Sample I	PH04 d: 641857-008		Matrix: Date Colle	Soil cted: 10.29.19 11.55		Date Received:11.01.19 13.59 Sample Depth: 0.5 ft		
Analytical Mo	ethod: Chloride by EPA	300			J	Prep Method: E30)0P	
Tech:	MAB				(% Moisture:		
Analyst:	MAB		Date Prep:	11.05.19 07.30]	Basis: We	t Weight	
Seq Number:	3106466							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	68.7	10.0	mg/kg	11.05.19 09.33		1

Analytical Method: TPH by SW8015 Mod					Prep Method: SW8015P				
Tech: DTH			% Moisture:						
Analyst: DTH		Date Prep:	11.04.19 17.00	I	Basis: We	t Weight			
Seq Number: 3106467									
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil		
Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.3	RL 50.3	Units mg/kg	Analysis Date 11.05.19 04.14	Flag U	Dil		
					•	0	Dil 1 1		

Total GRO-DRO	PHC628	<50.3	50.3		mg/kg	11.05.19 04.14	U	1
Total TPH	PHC635	<50.3	50.3		mg/kg	11.05.19 04.14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	79	%	70-135	11.05.19 04.14		
o-Terphenyl		84-15-1	86	%	70-135	11.05.19 04.14		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH04	Matrix: Soil	Date Received:11.01.19 13.59		
Lab Sample Id: 641857-008	Date Collected: 10.29.19 11.55	Sample Depth: 0.5 ft		
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B		
Tech: MAB		% Moisture:		
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight		
Seq Number: 3106342				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000994	0.000994		mg/kg	11.02.19 11.27	U	1
Toluene	108-88-3	< 0.000994	0.000994		mg/kg	11.02.19 11.27	U	1
Ethylbenzene	100-41-4	< 0.000994	0.000994		mg/kg	11.02.19 11.27	U	1
m,p-Xylenes	179601-23-1	< 0.00199	0.00199		mg/kg	11.02.19 11.27	U	1
o-Xylene	95-47-6	< 0.000994	0.000994		mg/kg	11.02.19 11.27	U	1
Total Xylenes	1330-20-7	< 0.000994	0.000994		mg/kg	11.02.19 11.27	U	1
Total BTEX		< 0.000994	0.000994		mg/kg	11.02.19 11.27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	11.02.19 11.27		
4-Bromofluorobenzene		460-00-4	121	%	70-130	11.02.19 11.27		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id:PH04BLab Sample Id:641857-	009	Matrix: Date Collecte	Soil d: 10.29.19 12.05	_	ate Received: ample Depth: 2	11.01.19 13.59 2 ft	
Analytical Method: Ch Tech: MAB	oride by EPA 300				rep Method: I Moisture:	E300P	
Analyst: MAB		Date Prep:	11.05.19 07.30	В	asis: V	Wet Weight	
Seq Number: 3106466							
Parameter	Cas Number	Result F	Ľ	Units	Analysis Dat	e Flag	Dil

					-	-	
Chloride	16887-00-6	38.3	10.0	mg/kg	11.05.19 09.39		1

Analytical Method: TPH by SW802	15 Mod			I	Prep Method: SW	8015P	
Tech: DTH				Ģ	% Moisture:		
Analyst: DTH		Date Prep:	11.04.19 17.00	I	Basis: We	t Weight	
Seq Number: 3106467							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.05.19 04.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.05.19 04.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.05.19 04.34	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	11.05.19 04.34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.05.19 04.34	U	1
			%				

Surrogate	Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.05.19 04.34	
o-Terphenyl	84-15-1	128	%	70-135	11.05.19 04.34	



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH04B	Matrix: Soil	Date Received:11.01.19 13.59		
Lab Sample Id: 641857-009	Date Collected: 10.29.19 12.05	Sample Depth: 2 ft		
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B		
Tech: MAB		% Moisture:		
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight		
Seq Number: 3106342				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000996	0.000996		mg/kg	11.02.19 11.46	U	1
Toluene	108-88-3	< 0.000996	0.000996		mg/kg	11.02.19 11.46	U	1
Ethylbenzene	100-41-4	< 0.000996	0.000996		mg/kg	11.02.19 11.46	U	1
m,p-Xylenes	179601-23-1	< 0.00199	0.00199		mg/kg	11.02.19 11.46	U	1
o-Xylene	95-47-6	< 0.000996	0.000996		mg/kg	11.02.19 11.46	U	1
Total Xylenes	1330-20-7	< 0.000996	0.000996		mg/kg	11.02.19 11.46	U	1
Total BTEX		< 0.000996	0.000996		mg/kg	11.02.19 11.46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	11.02.19 11.46		
4-Bromofluorobenzene		460-00-4	124	%	70-130	11.02.19 11.46		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH05 Lab Sample Id: 641857-010		Matrix: Date Collec	Soil ted: 10.29.19 12.30		Date Received Sample Depth		.19 13.59	
Analytical Method: Chloride by EPA 30 Tech: MAB	0				Prep Method: % Moisture:	E3001	р	
Analyst: MAB		Date Prep:	11.05.19 07.30		Basis:	Wet V	Veight	
Seq Number: 3106466 Parameter	Cas Number	Result	RL	Units	Analysis Da	ate	Flag	Dil
Chloride 1	6887-00-6	42.4	9.98	mg/kg	11.05.19 09.	45		1

Analytical Method: TPH by SW8 Tech: DTH	015 Mod				Prep Method: S % Moisture:	W8015P	
Analyst: DTH Seq Number: 3106467		Date Prep	: 11.04.19 17.00]	Basis: W	Vet Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.05.19 04.54	U	1

					00				
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	11.05.19 04.54	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	11.05.19 04.54	U	1	
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	11.05.19 04.54	U	1	
Total TPH	PHC635	<50.2	50.2		mg/kg	11.05.19 04.54	U	1	
			%						
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	82	%	70-135	11.05.19 04.54			
o-Terphenyl		84-15-1	88	%	70-135	11.05.19 04.54			



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH05	Matrix: Soil	Date Received:11.01.19 13.59
Lab Sample Id: 641857-010	Date Collected: 10.29.19 12.30	Sample Depth: 0.5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight
Seq Number: 3106342		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000998	0.000998		mg/kg	11.02.19 12.50	U	1
Toluene	108-88-3	< 0.000998	0.000998		mg/kg	11.02.19 12.50	U	1
Ethylbenzene	100-41-4	< 0.000998	0.000998		mg/kg	11.02.19 12.50	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	11.02.19 12.50	U	1
o-Xylene	95-47-6	< 0.000998	0.000998		mg/kg	11.02.19 12.50	U	1
Total Xylenes	1330-20-7	< 0.000998	0.000998		mg/kg	11.02.19 12.50	U	1
Total BTEX		< 0.000998	0.000998		mg/kg	11.02.19 12.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	114	%	70-130	11.02.19 12.50		
1,4-Difluorobenzene		540-36-3	101	%	70-130	11.02.19 12.50		



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Certificate of Analytical Results 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH05A		Matrix:	Soil			1:11.01.19 13.59	1
Lab Sample Id: 641857-011		Date Collecte	ed: 10.29.19 12.40		Sample Depth	:2 ft	
Analytical Method: Chloride by EPA	300				Prep Method:	E300P	
Tech: MAB					% Moisture:		
Analyst: MAB		Date Prep:	11.05.19 07.30		Basis:	Wet Weight	
Seq Number: 3106466							
Parameter	Cas Number	Result 1	RL	Units	Analysis Da	ate Flag	Dil

	Cas Number	Kesun	RL	Units	Analysis Date	riag	Dii
Chloride	16887-00-6	41.3	9.92	mg/kg	11.05.19 09.51		1

Analytical Method: TPH by SW8015	Mod			Prep Method: SW8015P			
Tech: DTH				ç	% Moisture:		
Analyst: DTH		Date Prep:	11.04.19 17.00	I	Basis: We	et Weight	
Seq Number: 3106467							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.05.19 05.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.05.19 05.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.05.19 05.34	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	11.05.19 05.34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.05.19 05.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.05.19 05.34	
o-Terphenyl	84-15-1	123	%	70-135	11.05.19 05.34	



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH05A	Matrix: Soil	Date Received:11.01.19 13.59
Lab Sample Id: 641857-011	Date Collected: 10.29.19 12.40	Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight
Seq Number: 3106342		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	11.02.19 13.09	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	11.02.19 13.09	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	11.02.19 13.09	U	1
m,p-Xylenes	179601-23-1	< 0.00202	0.00202		mg/kg	11.02.19 13.09	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	11.02.19 13.09	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	11.02.19 13.09	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	11.02.19 13.09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.02.19 13.09		
4-Bromofluorobenzene		460-00-4	120	%	70-130	11.02.19 13.09		



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Certificate of Analytical Results 641857

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Corral Canyon 4H

Sample Id: PH06 Lab Sample Id: 641857-012		Matrix: Date Collecte	Soil ed: 10.29.19 13.00	Date Receiv Sample Dep	ed:11.01.19 13.59 th:0.5 ft
Analytical Method: Chloride by EPA 3 Tech: MAB	300			Prep Methoo % Moisture:	
Analyst: MAB Seq Number: 3106466		Date Prep:	11.05.19 07.30	Basis:	Wet Weight
Parameter	Cas Number	Result F	RL	Units Analysis	Date Flag Dil

 Chloride
 16887-00-6
 24.2
 9.98
 mg/kg
 11.05.19
 10.09

Analytical Method: TPH by SW801	5 Mod			I	Prep Method: SW	/8015P	
Tech: DTH				Ģ	% Moisture:		
Analyst: DTH		Date Prep:	11.04.19 17.00	1	Basis: We	t Weight	
Seq Number: 3106467							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.05.19 05.54	U	1

o-Terphenyl		84-15-1	187	%	70-135	11.05.19 05.54	**		
1-Chlorooctane		111-85-3	174	%	70-135	11.05.19 05.54	**		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
Total TPH	PHC635	<50.3	50.3		mg/kg	11.05.19 05.54	U	1	
Total GRO-DRO	PHC628	<50.3	50.3		mg/kg	11.05.19 05.54	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3		mg/kg	11.05.19 05.54	U	1	
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3		mg/kg	11.05.19 05.54	U	1	
Casolille Ralige Hydrocarbolis (ORO)	THEOR	\$30.5	50.5		mg/kg	11.05.19 05.54	0	1	



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH06	Matrix: Soil	Date Received:11.01.19 13.59		
Lab Sample Id: 641857-012	Date Collected: 10.29.19 13.00			
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B		
Tech: MAB		% Moisture:		
Analyst: MAB	Date Prep: 11.01.19	18.11 Basis: Wet Weight		
Seq Number: 3106342				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	11.02.19 13.29	U	1
Toluene	108-88-3	< 0.00100	0.00100		mg/kg	11.02.19 13.29	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	11.02.19 13.29	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	11.02.19 13.29	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	11.02.19 13.29	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100		mg/kg	11.02.19 13.29	U	1
Total BTEX		< 0.00100	0.00100		mg/kg	11.02.19 13.29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	11.02.19 13.29		
4-Bromofluorobenzene		460-00-4	121	%	70-130	11.02.19 13.29		



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Corral Canyon 4H

Chloride		16887-00-6	65.7	50.4	mg/kg	11.05.19 10.15		5
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Seq Number:	3106466							
Analyst:	MAB		Date Prep:	11.05.19 07.30		Basis: We	t Weight	
Tech:	MAB					% Moisture:		
Analytical M	ethod: Chloride by EPA	300				Prep Method: E30	90P	
Lab Sample I	d: 641857-013		Date Colle	cted: 10.29.19 13.10		Sample Depth: 2 ft		
Sample Id: PH06A			Matrix:	Soil		9		

Analytical Method: TPH by SW801	5 Mod			I	Prep Method: SW	8015P	
Tech: DTH				ç	% Moisture:		
Analyst: DTH		Date Prep:	11.04.19 17.00	I	Basis: Wet	Weight	
Seq Number: 3106467							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.05.19 06.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.05.19 06.14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.05.19 06.14	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	11.05.19 06.14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.05.19 06.14	U	1

Total TPH	PHC635	< 50.0	50.0		mg/kg	11.05.19 06.14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	138	%	70-135	11.05.19 06.14	**	
o-Terphenyl		84-15-1	146	%	70-135	11.05.19 06.14	**	



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH06A	Matrix: Soil	Date Received:11.01.19 13.59
Lab Sample Id: 641857-013	Date Collected: 10.29.19 13.10	Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight
Seq Number: 3106342		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000988	0.000988		mg/kg	11.02.19 13.48	U	1
Toluene	108-88-3	< 0.000988	0.000988		mg/kg	11.02.19 13.48	U	1
Ethylbenzene	100-41-4	< 0.000988	0.000988		mg/kg	11.02.19 13.48	U	1
m,p-Xylenes	179601-23-1	< 0.00198	0.00198		mg/kg	11.02.19 13.48	U	1
o-Xylene	95-47-6	< 0.000988	0.000988		mg/kg	11.02.19 13.48	U	1
Total Xylenes	1330-20-7	< 0.000988	0.000988		mg/kg	11.02.19 13.48	U	1
Total BTEX		< 0.000988	0.000988		mg/kg	11.02.19 13.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	11.02.19 13.48		
4-Bromofluorobenzene		460-00-4	118	%	70-130	11.02.19 13.48		



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Certificate of Analytical Results 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH07 Lab Sample Id: 641857-014		Matrix: Date Collecte	Soil ed: 10.29.19 13.20		Date Received Sample Depth:		19 13.59	
Analytical Method: Chloride by EPA 300 Tech: MAB					Prep Method: % Moisture:	E300F)	
Analyst: MAB Seq Number: 3106466		Date Prep:	11.05.19 07.30		Basis:	Wet W	Veight	
Parameter C	Cas Number R	Result J	RL .	Units	Analysis Da	ite	Flag	Dil
Chloride 16	887-00-6	34.1	10.0	mg/kg	11.05.19 10.3	33		1

Analytical Method: TPH by SW801	5 Mod			I	Prep Method: SW8015P				
Tech: DTH				ç	% Moisture:				
Analyst: DTH		Date Prep:	11.04.19 17.00	I	Basis: We	t Weight			
Seq Number: 3106467									
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil		
	Cus Muniber	1000000	K L	Onto	Analysis Date	Flag	Di		
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.05.19 06.34	U	1		
					J	U	1 1		
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.05.19 06.34	U	1 1 1		

Total TPH	PHC635	<50.0	50.0		mg/kg	11.05.19 06.34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	79	%	70-135	11.05.19 06.34		
o-Terphenyl		84-15-1	83	%	70-135	11.05.19 06.34		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH07	Matrix: Soil	Date Received:11.01.19 13.59		
Lab Sample Id: 641857-014	Date Collected: 10.29.19 13.20	Sample Depth: 0.5 ft		
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B		
Tech: MAB		% Moisture:		
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight		
Seq Number: 3106342				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	11.02.19 08.54	U	1
Toluene	108-88-3	< 0.00100	0.00100		mg/kg	11.02.19 08.54	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	11.02.19 08.54	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	11.02.19 08.54	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	11.02.19 08.54	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100		mg/kg	11.02.19 08.54	U	1
Total BTEX		< 0.00100	0.00100		mg/kg	11.02.19 08.54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	99	%	70-130	11.02.19 08.54		
4-Bromofluorobenzene		460-00-4	115	%	70-130	11.02.19 08.54		



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Certificate of Analytical Results 641857

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Corral Canyon 4H

Sample Id: Lab Sample Id	PH07A l: 641857-015		Matrix: Date Collecto	Soil ed: 10.29.19 13.30		Date Received Sample Depth	d:11.01.19 13.5 n: 2 ft	59
Analytical Me	thod: Chloride by EPA 3	00				Prep Method:	E300P	
Tech:	MAB					% Moisture:		
Analyst:	MAB		Date Prep:	11.05.19 07.30		Basis:	Wet Weight	
Seq Number:	3106466							
Parameter		Cas Number	Result	RL	Units	Analysis D	ate Flag	Dil

 Chloride
 16887-00-6
 23.2
 10.1
 mg/kg
 11.05.19
 10.39

Analytical Method: TPH by SW80 Tech: DTH	15 Mod				Prep Method: SV % Moisture:	W8015P	
Analyst: DTH		Date Prep:	11.04.19 17.00]	Basis: W	et Weight	
Seq Number: 3106467							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.05.19 06.54	U	1
	~ ~						

Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3		mg/kg	11.05.19 06.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3		mg/kg	11.05.19 06.54	U	1
Total GRO-DRO	PHC628	<50.3	50.3		mg/kg	11.05.19 06.54	U	1
Total TPH	PHC635	<50.3	50.3		mg/kg	11.05.19 06.54	U	1
Surrogate		Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	111	%	70-135	11.05.19 06.54		
o-Terphenyl		84-15-1	121	%	70-135	11.05.19 06.54		



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Corral Canyon 4H

Sample Id: PH07A	Matrix: Soil	Date Received:11.01.19 13.59		
Lab Sample Id: 641857-015	Date Collected: 10.29.19 13.30	Sample Depth: 2 ft		
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B		
Tech: MAB		% Moisture:		
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight		
Seq Number: 3106342				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000998	0.000998		mg/kg	11.02.19 14.07	U	1
Toluene	108-88-3	< 0.000998	0.000998		mg/kg	11.02.19 14.07	U	1
Ethylbenzene	100-41-4	< 0.000998	0.000998		mg/kg	11.02.19 14.07	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	11.02.19 14.07	U	1
o-Xylene	95-47-6	< 0.000998	0.000998		mg/kg	11.02.19 14.07	U	1
Total Xylenes	1330-20-7	< 0.000998	0.000998		mg/kg	11.02.19 14.07	U	1
Total BTEX		< 0.000998	0.000998		mg/kg	11.02.19 14.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.02.19 14.07		
4-Bromofluorobenzene		460-00-4	120	%	70-130	11.02.19 14.07		



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Certificate of Analytical Results 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: Lab Sample I	PH08 d: 641857-016		Matrix: Date Colle	Soil cted: 10.29.19 13.45		Date Received:11.01.19 13.59 Sample Depth: 0.5 ft		
Analytical Mo	ethod: Chloride by EPA	300			I	Prep Method: E30)0P	
Tech:	MAB				Ģ	% Moisture:		
Analyst:	MAB		Date Prep:	11.05.19 07.30]	Basis: We	t Weight	
Seq Number:	3106466							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	707	20.2	mg/kg	11.05.19 10.45		2

Analytical Method: TPH by SW801	5 Mod	Prep Method: SW801					
Tech: DTH				ç	% Moisture:		
Analyst: DTH		Date Prep:	11.04.19 17.00	I	Basis: We	t Weight	
Seq Number: 3106467							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.05.19 07.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.05.19 07.14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.05.19 07.14	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	11.05.19 07.14	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.05.19 07.14	U	1

	%									
Surrogate	Cas Number	Recovery	Units	Limits	Analysis Date	Flag				
1-Chlorooctane	111-85-3	94	%	70-135	11.05.19 07.14					
o-Terphenyl	84-15-1	102	%	70-135	11.05.19 07.14					



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH08	Matrix: Soil	Date Received:11.01.19 13.59		
Lab Sample Id: 641857-016	Date Collected: 10.29.19 13.45	Sample Depth: 0.5 ft		
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B		
Tech: MAB		% Moisture:		
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight		
Seq Number: 3106342				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	11.02.19 14.26	U	1
Toluene	108-88-3	< 0.00100	0.00100		mg/kg	11.02.19 14.26	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	11.02.19 14.26	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	11.02.19 14.26	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	11.02.19 14.26	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100		mg/kg	11.02.19 14.26	U	1
Total BTEX		< 0.00100	0.00100		mg/kg	11.02.19 14.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	11.02.19 14.26		
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.02.19 14.26		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Chloride		16887-00-6	54.6	9.98	mg/kg	11.05.19 10.51		1
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Seq Number:	3106466							
Analyst:	MAB		Date Prep:	11.05.19 07.30		Basis: We	et Weight	
Tech:	MAB					% Moisture:		
Analytical M	ethod: Chloride by EPA	. 300				Prep Method: E3	00P	
Lab Sample I	d: 641857-017		Date Colle	cted: 10.29.19 13.55		Sample Depth: 2 ft		
Sample Id:	PH08A		Matrix:	Soil		Date Received:11.	01.19 13.5	9

Analytical Method: TPH by SW801 Tech: DTH	15 Mod			Prep Method: SW8015P % Moisture:				
Analyst: DTH		Date Prep:	11.04.19 17.00	1	Basis: We	et Weight		
Seq Number: 3106467		•						
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.05.19 07.34	U	1	
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.05.19 07.34	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.05.19 07.34	U	1	
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	11.05.19 07.34	U	1	
Total TDH	DHC635	<10.8	10.8	ma/ka	11.05.10.07.34	II	1	

Total TPH	PHC635	<49.8	49.8		mg/kg	11.05.19 07.34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	11.05.19 07.34		
o-Terphenyl		84-15-1	99	%	70-135	11.05.19 07.34		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH08A	Matrix: Soil	Date Received:11.01.19 13.59		
Lab Sample Id: 641857-017	Date Collected: 10.29.19 13.55	Sample Depth: 2 ft		
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B		
Tech: MAB		% Moisture:		
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight		
Seq Number: 3106342				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	11.02.19 14.45	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	11.02.19 14.45	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	11.02.19 14.45	U	1
m,p-Xylenes	179601-23-1	< 0.00202	0.00202		mg/kg	11.02.19 14.45	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	11.02.19 14.45	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	11.02.19 14.45	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	11.02.19 14.45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	70-130	11.02.19 14.45		
1,4-Difluorobenzene		540-36-3	84	%	70-130	11.02.19 14.45		



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Corral Canyon 4H

Sample Id: Lab Sample I	PH09 d: 641857-018		Matrix: Date Colle	Soil ected: 10.29.19 14.00		Date Received:11.01.19 13.59 Sample Depth: 0.5 ft		
Analytical M	ethod: Chloride by EPA	300			I	Prep Method: E30	00P	
Tech:	MAB				ç	% Moisture:		
Analyst:	MAB		Date Prep:	11.05.19 07.30	I	Basis: We	t Weight	
Seq Number:	3106466							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	635	49.8	mg/kg	11.05.19 10.57		5

Analytical Method: TPH by SW80	15 Mod			I	Prep Method: SW	/8015P	
Tech: DTH				ç	% Moisture:		
Analyst: DTH		Date Prep:	11.04.19 17.00	I	Basis: We	t Weight	
Seq Number: 3106467							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.05.19 07.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mo/ko	11 05 19 07 54	U	1

Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	11.05.19 07.54	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	11.05.19 07.54	U	1	
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	11.05.19 07.54	U	1	
Total TPH	PHC635	<49.9	49.9		mg/kg	11.05.19 07.54	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	97	%	70-135	11.05.19 07.54			
o-Terphenyl		84-15-1	104	%	70-135	11.05.19 07.54			
1 5		01 10 1	101	70	10 100	11100119 07101			



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH09	Matrix: Soil	Date Received:11.01.19 13.59		
Lab Sample Id: 641857-018	Date Collected: 10.29.19 14.00	Sample Depth: 0.5 ft		
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B		
Tech: MAB		% Moisture:		
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight		
Seq Number: 3106342				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	11.02.19 15.04	U	1
Toluene	108-88-3	< 0.00101	0.00101		mg/kg	11.02.19 15.04	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	11.02.19 15.04	U	1
m,p-Xylenes	179601-23-1	< 0.00202	0.00202		mg/kg	11.02.19 15.04	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	11.02.19 15.04	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	11.02.19 15.04	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	11.02.19 15.04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	11.02.19 15.04		
4-Bromofluorobenzene		460-00-4	122	%	70-130	11.02.19 15.04		



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Certificate of Analytical Results 641857

LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id:	PH09A		Matrix:	Soil		Date Received:11.	01.19 13.59	9
Lab Sample Id	l: 641857-019		Date Colle	cted: 10.29.19 14.05	Ĩ	Sample Depth: 2 ft		
Analytical Me	thod: Chloride by EPA	300				Prep Method: E30)0P	
Tech:	MAB					% Moisture:		
Analyst:	MAB		Date Prep:	11.05.19 07.30		Basis: We	t Weight	
Seq Number:	3106466							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	123	9.94	mg/kg	11.05.19 11.03		1

Analytical Method: TPH by SW801	5 Mod			Ι	Prep Method: SW	8015P	
Tech: DTH				ç	% Moisture:		
Analyst: DTH		Date Prepa	: 11.04.19 17.00	I	Basis: Wet	t Weight	
Seq Number: 3106467							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.8	RL 49.8	Units mg/kg	Analysis Date 11.05.19 08.14	Flag U	Dil 1
					•	8	Dil 1 1
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.05.19 08.14	U	Dil 1 1 1 1

Total TPH	PHC635	<49.8	49.8		mg/kg	11.05.19 08.14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-135	11.05.19 08.14		
o-Terphenyl		84-15-1	98	%	70-135	11.05.19 08.14		



LT Environmental, Inc., Arvada, CO

Corral Canyon 4H

Sample Id: PH09A	Matrix: Soil	Date Received:11.01.19 13.59			
Lab Sample Id: 641857-019	Date Collected: 10.29.19 14.05	Sample Depth: 2 ft			
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B			
Tech: MAB		% Moisture:			
Analyst: MAB	Date Prep: 11.01.19 18.11	Basis: Wet Weight			
Seq Number: 3106342					

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000998	0.000998		mg/kg	11.02.19 15.24	U	1
Toluene	108-88-3	< 0.000998	0.000998		mg/kg	11.02.19 15.24	U	1
Ethylbenzene	100-41-4	< 0.000998	0.000998		mg/kg	11.02.19 15.24	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	11.02.19 15.24	U	1
o-Xylene	95-47-6	< 0.000998	0.000998		mg/kg	11.02.19 15.24	U	1
Total Xylenes	1330-20-7	< 0.000998	0.000998		mg/kg	11.02.19 15.24	U	1
Total BTEX		< 0.000998	0.000998		mg/kg	11.02.19 15.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	11.02.19 15.24		
4-Bromofluorobenzene		460-00-4	122	%	70-130	11.02.19 15.24		



Flagging Criteria

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

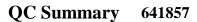
SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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



ORATORIES



LT Environmental, Inc.

Corral Canyon 4H

Analytical Method: Seq Number: MB Sample Id: Parameter	Chloride by EPA 3 3106466 7689438-1-BLK MB	Spike	LCS Sar LCS	LCS	7689438- LCSD	LCSD	Limits	Prep Me Date LCSD Samj %RPD RPD L i	Prep: 11.0 ple Id: 768)5.19 9438-1-BSD Analysis	Flag
Chloride	Result <10.0	Amount 250	Result 235	%Rec 94	Result 237	%Rec 95	90-110	1 20	ma/lta	Date 11.05.19 08:15	_
Chioride	<10.0	250	255	94	257	95	90-110	1 20	mg/kg	11.03.19 08.13	
·	Chloride by EPA 3	00						Prep Me			
Seq Number:	3106466			Matrix:		01.0		Date	-)5.19	
Parent Sample Id:	641857-001			-	641857-0					857-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD RPD Li	mit Units	Analysis Date	Flag
Chloride	1390	998	2670	128	2680	130	90-110	0 20	mg/kg	11.05.19 08:33	Х
Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride	Chloride by EPA 3 3106466 641857-011 Parent Result 41.3	00 Spike Amount 199		Matrix: nple Id: MS %Rec 115	Soil 641857-0 MSD Result 269	11 S MSD %Rec 116	Limits 90-110	Prep Me Date 1 MSD Samp %RPD RPD Li 0 20	Prep: 11.0 ple Id: 641		Flag X
Analytical Method: Seq Number: MB Sample Id:	TPH by SW8015 M 3106467 7689599-1-BLK	ſod	LCS Sar	Matrix: nple Id:	Solid 7689599-	1-BKS			Prep: 11.0 ple Id: 768	8015P)4.19 9599-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD RPD Li	mit Units	Analysis Date	Flag
Gasoline Range Hydrocarb		1000	893	89	945	95	70-135	6 35	mg/kg	11.05.19 00:32	
Diesel Range Organics	(DRO) <50.0	1000	990	99	1030	103	70-135	4 35	mg/kg	11.05.19 00:32	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Units	Analysis Date	
1 Ch1-1											
1-Chlorooctane o-Terphenyl	95 102			09 09		114 112		70-135 70-135	% %	11.05.19 00:32 11.05.19 00:32	

Analytical Method: TPH I	oy SW8015 Mod	Prep Method:	SW80)15P	
Seq Number: 31064	57 Matrix:	Solid Date Prep:	11.04	.19	
	MB Sample Id:	7689599-1-BLK			
Parameter	MB Result	τ	J nits	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MR	O) <50.0	n	ng/kg	11.05.19 00:12	

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

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

LCS = Laboratory Control SampleA = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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

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Final 1.000





QC Summary 641857

LT Environmental, Inc.

Corral Canyon 4H

Analytical Method: TPH by	SW8015 Mod						Prep Meth	od: SW	8015P	
Seq Number: 3106467			Matrix:	Soil			Date Pr	ep: 11.0	4.19	
Parent Sample Id: 641857-	001	MS Sa	mple Id:	641857-00	01 S		MSD Sampl	e Id: 641	857-001 SD	
Parameter	Parent Sj Result Amo	pike MS ount Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD RPD Lin	ut Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000 964	96	1000	100	70-135	4 35	mg/kg	11.05.19 01:32	
Diesel Range Organics (DRO)	<50.2	1000 1080	108	1130	113	70-135	5 35	mg/kg	11.05.19 01:32	
Surrogate		0	MS %Rec	MS Flag	MSD %Ree			Units	Analysis Date	
1-Chlorooctane			120		126		70-135	%	11.05.19 01:32	
o-Terphenyl			120		126		70-135	%	11.05.19 01:32	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3106342 7689543-1-BLK	1B	LCS San	Matrix: nple Id:	Solid 7689543-	1-BKS			Prep Methoo Date Prej SD Sample	p: 11.0	5030B 11.19 9543-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	D RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00100	0.100	0.0976	98	0.100	100	70-130	2	35	mg/kg	11.02.19 07:12	
Toluene	< 0.00100	0.100	0.0999	100	0.101	101	70-130	1	35	mg/kg	11.02.19 07:12	
Ethylbenzene	< 0.00100	0.100	0.0949	95	0.0979	98	71-129	3	35	mg/kg	11.02.19 07:12	
m,p-Xylenes	< 0.00200	0.200	0.202	101	0.208	104	70-135	3	35	mg/kg	11.02.19 07:12	
o-Xylene	< 0.00100	0.100	0.104	104	0.106	106	71-133	2	35	mg/kg	11.02.19 07:12	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	98		1	03		100			70-130	%	11.02.19 07:12	
4-Bromofluorobenzene	112		1	16		114			70-130	%	11.02.19 07:12	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3106342 641857-014	1B		Matrix: nple Id:	Soil 641857-0	14 S			rep Metho Date Pre D Sample	p: 11.0	5030B 11.19 857-014 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00100	0.100	0.0715	72	0.0837	84	70-130	16	35	mg/kg	11.02.19 07:50	
Toluene	< 0.00100	0.100	0.0702	70	0.0769	77	70-130	9	35	mg/kg	11.02.19 07:50	
Ethylbenzene	< 0.00100	0.100	0.0614	61	0.0715	72	71-129	15	35	mg/kg	11.02.19 07:50	Х
m,p-Xylenes	< 0.00200	0.200	0.129	65	0.150	75	70-135	15	35	mg/kg	11.02.19 07:50	Х
o-Xylene	< 0.00100	0.100	0.0667	67	0.0800	80	71-133	18	35	mg/kg	11.02.19 07:50	Х
Surrogate				AS Rec	MS Flag	MSD %Ree		_	limits	Units	Analysis Date	
1,4-Difluorobenzene			1	01		104		7	0-130	%	11.02.19 07:50	
4-Bromofluorobenzene			1	19		123		7	0-130	%	11.02.19 07:50	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Received by	CD:	1/8/2	020 2:5	57:401	M-				Т	T	T	T	T	- 5						-		1	-				_		Pag	e 98 of 123
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	11 11 11 11	Received by	samples and shall not assumuted to each project and a char	be analyzed T	V V				o o		S	_	-	Matrix Date Sampled	& N/A Total	1/A	+	Temp Blank: Yes No	C Worder #:	ers	Eddy County	24 0	Canyon 4H	1 7365		RTH.	ENVIRONMENTAL	COLE		
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	oully	Received by: (Signature)		K Se Ag SiO2 Na											TAT st	Zn Ac	NaOH	HOLH	100H	None	MeO			Deliverables: EDD ADaPT	Reporting:Level II CLevel III CPST/UST CTRRP C Level IV	State of Project:	Program: IIST/DST DDD Downed Line			Work Order No: 1241 85
Revised Date 022619 Rev. 2019.1	11/1/19 1359	Date/Time		a Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hn									Sample Comments	received by 4:00pm	TAT starts the day receiied by the lab, if	Zn Acetate+ NaOH: Zn	NaOH: Na	- HI		None: NO	MeOH: Me	Preservative Codes		Other		as_kkc_ Superfund_	ments	I ayo U		t 28 141

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Address: 3300 NDR-TH A ST Address: 3104 E. GREENE ST State ZIP: MIDLAUD TX TG TD S City, State ZIP: CARLS BAD NM 88220 Phone: 720 384 7365 Email: aco le O. Henv.com 4-abyersO. Henv.com lect Name: Corral Canyen 4H Turn Around Pres. t. Number: C129 19 124 Routine Code Anna byersO. Henv.com t. Location Eucral Edoly County Rush: 5DAY Analysis REQUING er's Name: Anna byers Quote #: Due Date: 5 21 0 po #: 2RP - 3713 Quote #: Due Date: 5 21 0 0 pomerature (°C): press No Wet Ice: Yes No Wet Ice: 5 21 0 0
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Page 51 of 51

for LT Environmental, Inc.

Project Manager: Dan Moir

Coral Canyon Fed 4H

012919124

15-NOV-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 (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483) Received by OCD: 4/8/2020 2:57:40 PM



15-NOV-19

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

Reference: XENCO Report No(s): 642948 **Coral Canyon Fed 4H** Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 642948. 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. 642948 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 Vramer

Jessica Kramer **Project Assistant**

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

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



Sample Id

FS01

.

Sample Cross Reference 642948

LT Environmental, Inc., Arvada, CO

Coral Canyon Fed 4H

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	11-12-19 12:20	2 ft	642948-001



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Coral Canyon Fed 4H

 Project ID:
 012919124

 Work Order Number(s):
 642948

TORIES

 Report Date:
 15-NOV-19

 Date Received:
 11/12/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3107284 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



 Project Id:
 012919124

 Contact:
 Dan Moir

Project Location:

Certificate of Analysis Summary 642948

LT Environmental, Inc., Arvada, CO Project Name: Coral Canyon Fed 4H Page 104 of 123

Date Received in Lab:Tue Nov-12-19 03:53 pmReport Date:15-NOV-19Project Manager:Jessica Kramer

	Lab Id:	642948-001			
Analysis Requested	Field Id:	FS01			
inalysis Requested	Depth:	2- ft			
	Matrix:	SOIL			
	Sampled:	Nov-12-19 12:20			
BTEX by EPA 8021B	Extracted:	Nov-12-19 17:30			
	Analyzed:	Nov-13-19 04:25			
	Units/RL:	mg/kg RL			
Benzene		<0.000996 0.000996			
Toluene		<0.000996 0.000996			
Ethylbenzene		<0.000996 0.000996			
m,p-Xylenes		<0.00199 0.00199			
o-Xylene		<0.000996 0.000996			
Total Xylenes		<0.000996 0.000996			
Total BTEX		<0.000996 0.000996			
Chloride by EPA 300	Extracted:	Nov-12-19 17:30			
	Analyzed:	Nov-13-19 11:13			
	Units/RL:	mg/kg RL			
Chloride		128 9.92			
TPH by SW8015 Mod	Extracted:	Nov-13-19 17:11			
	Analyzed:	Nov-14-19 03:16			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)	·	<50.0 50.0			
Diesel Range Organics (DRO)		<50.0 50.0			
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0			
Total GRO-DRO		<50.0 50.0			
Total TPH		<50.0 50.0			

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

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

fession kenner

Jessica Kramer Project Assistant



LT Environmental, Inc., Arvada, CO

Coral Canyon Fed 4H

Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Seq Number:	3107504							
Analyst:	DTH		Date Prep:	11.13.19 17.11		Basis: We	et Weight	
Tech:	DTH					% Moisture:		
Analytical Me	ethod: TPH by SW8	015 Mod				Prep Method: SV	V8015P	
Chloride		16887-00-6	128	9.92	mg/kg	11.13.19 11.13		1
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Seq Number:	3107444							
Analyst:	MAB		Date Prep:	11.12.19 17.30		Basis: We	et Weight	
Tech:	MAB					% Moisture:		
Analytical Me	ethod: Chloride by H	EPA 300				Prep Method: E3	00P	
Lab Sample Id	d: 642948-001		Date Collec	ted: 11.12.19 12.20		Sample Depth: 2 f	ť	
Sample Id:	FS01		Matrix:	Soil		Date Received:11	.12.19 15.5.	

Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	11.14.19 03.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	11.14.19 03.16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	11.14.19 03.16	U	1
Total GRO-DRO	PHC628	<50.0	50.0		mg/kg	11.14.19 03.16	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	11.14.19 03.16	U	1
		%	Recovery					
Surrogate		Cas Number	·	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	115	%	70-135	11.14.19 03.16		
o-Terphenyl		84-15-1	119	%	70-135	11.14.19 03.16		



LT Environmental, Inc., Arvada, CO

Coral Canyon Fed 4H

Sample Id: FS01	Matrix: Soil	Date Received:11.12.19 15.53
Lab Sample Id: 642948-001	Date Collected: 11.12.19 12.20	Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.12.19 17.30	Basis: Wet Weight
Seq Number: 3107284		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000996	0.000996		mg/kg	11.13.19 04.25	U	1
Toluene	108-88-3	< 0.000996	0.000996		mg/kg	11.13.19 04.25	U	1
Ethylbenzene	100-41-4	< 0.000996	0.000996		mg/kg	11.13.19 04.25	U	1
m,p-Xylenes	179601-23-1	< 0.00199	0.00199		mg/kg	11.13.19 04.25	U	1
o-Xylene	95-47-6	< 0.000996	0.000996		mg/kg	11.13.19 04.25	U	1
Total Xylenes	1330-20-7	< 0.000996	0.000996		mg/kg	11.13.19 04.25	U	1
Total BTEX		< 0.000996	0.000996		mg/kg	11.13.19 04.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	11.13.19 04.25		
1,4-Difluorobenzene		540-36-3	102	%	70-130	11.13.19 04.25		



Flagging Criteria

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

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

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.

Coral Canyon Fed 4H

Analytical Method:	Chloride by EPA 3	loride by EPA 300									Prep Method: E300P					
Seq Number:	3107444			Matrix:	Solid				Date Pro	ep: 11.1	2.19					
MB Sample Id:	7690121-1-BLK		LCS Sar	nple Id:	7690121-	1-BKS		LCS	D Sample	e Id: 7690)121-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag				
Chloride	<10.0	250	251	100	250	100	90-110	0	20	mg/kg	11.13.19 08:44					
Analytical Mathada	Chlorida by EDA 2	00						n	nen Mede	od: E300	מו					
Analytical Method:				PI	rep Metho)a: E200	JF									

Seq Number:	3107444			Matrix:	Soil				Date Pr	rep: 11.1	2.19	
Parent Sample Id:	642845-021		MS Sar	nple Id:	642845-02	21 S		MS	D Sampl	e Id: 6428	345-021 SD	
Parameter	Paren Resul		MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date	Flag
Chloride	37.	201	241	101	247	105	90-110	2	20	mg/kg	11.13.19 09:01	

Analytical Method:	Chloride by EPA 30	00						Pı	ep Meth	od: E300)P	
Seq Number:	3107444	Matrix: Soil					Date Prep: 11.12.19					
Parent Sample Id:	642845-031	MS Sample Id: 642845-031 S					MSD Sample Id: 642845-031 SD			345-031 SD		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date	Flag
Chloride	324	200	523	100	521	99	90-110	0	20	mg/kg	11.13.19 10:26	

Analytical Method:	od]	Prep Metho	od: SW8	3015P			
Seq Number: 3107504					Matrix: Solid					Date Pre	ep: 11.1	3.19	
MB Sample Id: 7690340-1-BLK			LCS Sample Id: 7690340-1-BKS					LCSD Sample Id: 7690340-1-BSD					
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Lim	it Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	1000	958	96	980	98	70-135	2	35	mg/kg	11.14.19 00:55	
Diesel Range Organics	(DRO)	<50.0	1000	971	97	987	99	70-135	2	35	mg/kg	11.14.19 00:55	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane		120		1	12		116			70-135	%	11.14.19 00:55	
o-Terphenyl		123		1	04		107		,	70-135	%	11.14.19 00:55	

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8	015P	
Seq Number:	3107504	Matrix:	Solid	Date Prep:	11.13	3.19	
		MB Sample Id:	7690340-1-BLK				
Parameter		MB Result		τ	J nits	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)		<50.0		m	ıg/kg	11.14.19 00:35	

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

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

LCS = Laboratory Control SampleA = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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

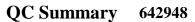
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BORATORIES



LT Environmental, Inc.

Coral Canyon Fed 4H

Analytical Method:	TPH by SV	W8015 M	od						I	Prep Metho	d: SW8	3015P	
Seq Number:	3107504]	Matrix:	Soil				Date Pre	p: 11.1	3.19	
Parent Sample Id:	642783-01	0		MS San	nple Id:	642783-01	10 S		M	SD Sample	Id: 642	783-010 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPE	RPD Limi	t Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.3	1010	1100	109	921	92	70-135	18	35	mg/kg	11.14.19 01:55	
Diesel Range Organics	(DRO)	40.9	1010	1150	110	936	90	70-135	21	35	mg/kg	11.14.19 01:55	
Surrogate					1S Rec	MS Flag	MSE %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane				1	33		99		7	0-135	%	11.14.19 01:55	
o-Terphenyl				1	28		94		7	0-135	%	11.14.19 01:55	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 8021 3107284 7690178-1-BLK	B	LCS San	Matrix: nple Id:	Solid 7690178-	1-BKS			Prep Metho Date Pre SD Sample	ep: 11.1	5030B 2.19 0178-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Lim	it Units	Analysis Date	Flag
Benzene	< 0.00100	0.100	0.0892	89	0.0933	93	70-130	4	35	mg/kg	11.12.19 21:12	
Toluene	< 0.00100	0.100	0.0910	91	0.0939	94	70-130	3	35	mg/kg	11.12.19 21:12	
Ethylbenzene	< 0.00100	0.100	0.0914	91	0.0943	94	71-129	3	35	mg/kg	11.12.19 21:12	
m,p-Xylenes	< 0.00200	0.200	0.195	98	0.201	101	70-135	3	35	mg/kg	11.12.19 21:12	
o-Xylene	< 0.00100	0.100	0.0992	99	0.102	102	71-133	3	35	mg/kg	11.12.19 21:12	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene	100		1	02		103		-	70-130	%	11.12.19 21:12	
4-Bromofluorobenzene	110		1	15		114			70-130	%	11.12.19 21:12	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 8021 3107284 642845-021	B		Matrix: ple Id:	Soil 642845-02	21 S			Prep Metho Date Pre SD Sample	p: 11.1	5030B 2.19 845-021 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.000990	0.0990	0.0744	75	0.0941	93	70-130	23	35	mg/kg	11.13.19 09:46	
Toluene	< 0.000990	0.0990	0.0770	78	0.0953	94	70-130	21	35	mg/kg	11.13.19 09:46	
Ethylbenzene	< 0.000990	0.0990	0.0782	79	0.0957	95	71-129	20	35	mg/kg	11.13.19 09:46	
m,p-Xylenes	< 0.00198	0.198	0.168	85	0.205	101	70-135	20	35	mg/kg	11.13.19 09:46	
o-Xylene	< 0.000990	0.0990	0.0823	83	0.102	101	71-133	21	35	mg/kg	11.13.19 09:46	
Surrogate				IS Rec	MS Flag	MSI %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene			9	19		105			70-130	%	11.13.19 09:46	
4-Bromofluorobenzene			1	13		120			70-130	%	11.13.19 09:46	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

XE	(ENCO		Houston, Ti Midland, T	X (281) 240-4200 FX (432-704-5440	Dallas,TX (2)) EL Paso,T	Dallas, TX (214) 902-0300 San Antonio EL Paso, TX (915)585-3443 Lubbock, T	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	Here		2
Cuan	RAI CAILE	Hobb	s,NM (575-392-7	550) Phoenix,AZ	(480-355-090	00) Atlanta,G	Hobbs.NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	WW	www.xenco.com Page of	1
Project Manager: Da	Dan Moir		B	Bill to: (if different)	Kyle Littrell	trell			lents]
	LT Environmental, Inc.,	nc., Permian office		Company Name:	XTO Energy	lergy			PRP Brownfields RC uperfund	Ind
	3300 North A Street	-		Address:	3104 E	3104 E Green Street		State of Project:		:
e ZIP:	Midland, TX 79705		C	City, State ZIP:	Carlsba	Carlsbad, NM 88220		Reporting:Level II Level III LPST/US1	Ę	2
	432.236.3849		Email: lo	Idelval@ltenv.com	mo	12		Deliverables: EDD	ADaP1 U Utner:	
Name:	Cool and	Fed 44	Turn	Turn Around			ANALYSIS REQUEST	JEST	Work Order Notes	otes
ň	10		Routine	Ř						
			Rush:							
Sampler's Name: Be	Benjamin-Belilt Luris	s Del VI	Due Date:	ate:						
SAMPLE RECEIPT	T Temp Blank:	ank: Yes No	Wet Ice:	Res No	5					
Temperature (°C):	2.6		Thermometer ID		iner					
Received Intact:	eg N		t00- NN-	3					TAT state the decreposided by the	riad by the
Cooler Custody Seals:	Ves No N	N/A Tota	Total Containers:	1	-				lab, if received by 4:30pm	:30pm
Sample Identification		Dat	Time Sampled	Depth	Numbe TPH (EP	BTEX (E			Sample Comments	ents
FSO1	5	Winner	1220	2'	K	XX				
Total 200.7 / 6010	otal 200.7 / 6010 200.8 / 6020:		BRCRA 13PPM Tex TCLP / SPLP 6010:	PM Texas 11 / P 6010: 8RCRA	Al Sb	As Ba Be B Cd Ca As Ba Be Cd Cr Co	Cr Co Cu Pb	Cu Fe Pb Mg Mn Mo Ni K Se Mn Mo Ni Se Ag Ti U	Ag SiO2 Na Sr TI Sn U V Zn 1631/245.1/7470/7471:Hg	n 171 : Hg
Notice: Signature of this doo of service. Xenco will be lia	cument and relinquishn ble only for the cost of	nent of samples cons samples and shall n	stitutes a valid pur ot assume any res	chase order from o ponsibility for any	client company losses or exp	y to Xenco, its a enses incurred	ffiliates and subcontractors. It ass by the client if such losses are due alyzed. These terms will be enforce	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions service. Signature of this document and relinquishment of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred. These terms will be enforced unless previously negotiated.	rol	
Relinquished by: (Signature)	(Signature)	Received	Received by: (Signature)	(e)	Date/Time	Time	Relinquished by: (Signature)	ature) Received	Received by: (Signature) Date/Time	Time
1 hat par la	1	Our	ANA		"/12/19	15:53	4 2			
5							0		Revised Date 05	Revised Date 051418 Rev. 2018.1

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 11/12/2019 03:53:00 PM Temperature Measuring device used : T-NM-007 Work Order #: 642948 Comments Sample Receipt Checklist 2.6 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? Yes #5 Custody Seals intact on sample bottles? Yes #6*Custody Seals Signed and dated? Yes #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? No

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

Analyst:

PH Device/Lot#:

#18 Water VOC samples have zero headspace?

Checklist completed by: Elizabeth McClellan

Date: 11/12/2019

N/A

Checklist reviewed by: Jession Vramer

Jessica Kramer

Date: 11/14/2019

for LT Environmental, Inc.

Project Manager: Dan Moir

Coral Canyon Fed 4H

012919124

15-NOV-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 (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



15-NOV-19

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

Reference: XENCO Report No(s): 642951 **Coral Canyon Fed 4H** Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 642951. 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. 642951 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 Vramer

Jessica Kramer **Project Assistant**

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

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



Sample Id

SW01

Sample Cross Reference 642951

Coral Canyon Fed 4H

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	11-12-19 12:34	0.5 - 2 ft	642951-001

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CASE NARRATIVE

Client Name: LT Environmental, Inc. **Project Name: Coral Canyon Fed 4H**

Project ID: 012919124 Work Order Number(s): 642951

TORIES

15-NOV-19 Report Date: Date Received: 11/12/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3107284 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3107504 TPH by SW8015 Mod Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 642951-001.



 Project Id:
 012919124

 Contact:
 Dan Moir

Project Location:

Certificate of Analysis Summary 642951

LT Environmental, Inc., Arvada, CO Project Name: Coral Canyon Fed 4H Page 116 of 123

Date Received in Lab: Tue Nov-12-19 03:53 pm Report Date: 15-NOV-19 Project Manager: Jessica Kramer

Lah Id.	642051 001					
Field Id:	SW01					
Depth:	0.5-2 ft					
Matrix:	SOIL					
Sampled:	Nov-12-19 12:34					
Extracted:	Nov-12-19 17:30					
Analyzed:	Nov-13-19 04:44					
Units/RL:	mg/kg RL					
	<0.000988 0.000988					
	<0.000988 0.000988					
	<0.000988 0.000988					
	<0.00198 0.00198					
	<0.000988 0.000988					
	<0.000988 0.000988					
	<0.000988 0.000988					
Extracted:	Nov-12-19 17:30					
Analyzed:	Nov-13-19 11:19					
Units/RL:	mg/kg RL					
	126 9.88					
Extracted:	Nov-13-19 17:11					
Analyzed:	Nov-14-19 03:36					
Units/RL:	mg/kg RL					
	<50.3 50.3					
	<50.3 50.3					
	<50.3 50.3					
	<50.3 50.3					
	<50.3 50.3					
	Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed:	Field Id: SW01 Depth: 0.5-2 ft Matrix: SOIL Sampled: Nov-12-19 12:34 Extracted: Nov-12-19 17:30 Analyzed: Nov-13-19 04:44 Units/RL: mg/kg RL Source Nov-12-19 17:30 Analyzed: Nov-13-19 04:44 Units/RL: mg/kg RL Witts/RL: mg/kg RL <	Field Id: SW01 Depth: 0.5-2 ft Matrix: SOIL Sampled: Nov-12-19 12:34 Extracted: Nov-12-19 17:30 Analyzed: Nov-13-19 04:44 Units/RL: mg/kg RL mg/kg RL	Field Id: SW01 Depth: 0.5-2 ft Matrix: SOIL Sampled: Nov-12-19 12:34 Extracted: Nov-12-19 17:30 Analyzed: Nov-13-19 04:44 Units/RL: mg/kg RL	Field Id: SW01 Image: SW01 <th< th=""><th>Field Hi SW01 0.5-2 ft Matrix: SOIL Samplei: Nov-12-19 12:34 Extracted: Nov-12-19 17:30 Analyzet: Nov-13-19 04:44 Units/RL: mg/kg RL -0.000988 0.000988 Nov-13-19 17:30</th></th<>	Field Hi SW01 0.5-2 ft Matrix: SOIL Samplei: Nov-12-19 12:34 Extracted: Nov-12-19 17:30 Analyzet: Nov-13-19 04:44 Units/RL: mg/kg RL -0.000988 0.000988 Nov-13-19 17:30

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

Version: 1.%

fession kramer

Jessica Kramer Project Assistant

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Certificate of Analytical Results 642951

LT Environmental, Inc., Arvada, CO

Coral Canyon Fed 4H

Sample Id:SW01Lab Sample Id:642951-001		Matrix: Date Collec	Soil cted: 11.12.19 12.34		Date Received:11.1 Sample Depth:0.5		3
Analytical Method: Chloride by EF	PA 300				Prep Method: E30	OP	
Tech: MAB					% Moisture:		
Analyst: MAB		Date Prep:	11.12.19 17.30		Basis: Wet	t Weight	
Seq Number: 3107444							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	126	9.88	mg/kg	11.13.19 11.19		1
Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH	15 Mod	Date Prep:	11.13.19 17.11		Prep Method: SW % Moisture: Basis: Wet	8015P t Weight	
Seq Number: 3107504		Ĩ				-	
		Result	DI	Units	Analysis Date	Flag	D:1
Parameter	Cas Number	Kesult	RL	Units	Analysis Date	riag	Dil
Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	<50.3	50.3	mg/kg	11.14.19 03.36	U	1

Seq Number: 3107504								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	11.14.19 03.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3		mg/kg	11.14.19 03.36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3		mg/kg	11.14.19 03.36	U	1
Total GRO-DRO	PHC628	<50.3	50.3		mg/kg	11.14.19 03.36	U	1
Total TPH	PHC635	<50.3	50.3		mg/kg	11.14.19 03.36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	131	%	70-135	11.14.19 03.36		
o-Terphenyl		84-15-1	140	%	70-135	11.14.19 03.36	**	



Certificate of Analytical Results 642951

LT Environmental, Inc., Arvada, CO

Coral Canyon Fed 4H

Sample Id: SW01	Matrix: Soil	Date Received:11.12.19 15.53
Lab Sample Id: 642951-001	Date Collected: 11.12.19 12.34	Sample Depth: 0.5 - 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 11.12.19 17.30	Basis: Wet Weight
Seq Number: 3107284		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000988	0.000988		mg/kg	11.13.19 04.44	U	1
Toluene	108-88-3	< 0.000988	0.000988		mg/kg	11.13.19 04.44	U	1
Ethylbenzene	100-41-4	< 0.000988	0.000988		mg/kg	11.13.19 04.44	U	1
m,p-Xylenes	179601-23-1	< 0.00198	0.00198		mg/kg	11.13.19 04.44	U	1
o-Xylene	95-47-6	< 0.000988	0.000988		mg/kg	11.13.19 04.44	U	1
Total Xylenes	1330-20-7	< 0.000988	0.000988		mg/kg	11.13.19 04.44	U	1
Total BTEX		< 0.000988	0.000988		mg/kg	11.13.19 04.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	99	%	70-130	11.13.19 04.44		
4-Bromofluorobenzene		460-00-4	125	%	70-130	11.13.19 04.44		



Flagging Criteria

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

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

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.

Coral Canyon Fed 4H

Analytical Method: Seq Number: MB Sample Id:	Chloride by 3107444 7690121-1-B		00	LCS Sar	Matrix: nple Id:	Solid 7690121-1	I-BKS			ep Methe Date Pr D Sample	ep: 11.1		
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride		<10.0	250	251	100	250	100	90-110	0	20	mg/kg	11.13.19 08:44	
Analytical Method: Seq Number: Parent Sample Id:	Chloride by 3107444 642845-021	EPA 30	0		Matrix: nple Id:	Soil 642845-02	21 S			ep Methe Date Pr D Sample	ep: 11.1		
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride		37.9	201	241	101	247	105	90-110	2	20	mg/kg	11.13.19 09:01	

Analytical Method:	Chloride by EPA 30)0						Р	rep Meth	od: E30	00P	
Seq Number:	3107444			Matrix:	Soil				Date Pr	rep: 11.	12.19	
Parent Sample Id:	642845-031		MS San	nple Id:	642845-03	31 S		MS	D Sampl	e Id: 642	845-031 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date	Flag

Analytical Method:	TPH by S	W8015 M	od]	Prep Metho	d: SW8	3015P	
Seq Number:	3107504				Matrix:	Solid				Date Pre	p: 11.1	3.19	
MB Sample Id:	7690340-1	-BLK		LCS San	nple Id:	7690340-	I-BKS		LC	SD Sample	Id: 7690)340-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limi	t Units	Analysis Date	Flag
Gasoline Range Hydrocarb	oons (GRO)	<50.0	1000	958	96	980	98	70-135	2	35	mg/kg	11.14.19 00:55	
Diesel Range Organics	(DRO)	<50.0	1000	971	97	987	99	70-135	2	35	mg/kg	11.14.19 00:55	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane		120		1	12		116		-	70-135	%	11.14.19 00:55	
o-Terphenyl		123		1	04		107			70-135	%	11.14.19 00:55	

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8	015P	
Seq Number:	3107504	Matrix:	Solid	Date Prep:	11.13	3.19	
		MB Sample Id:	7690340-1-BLK				
Parameter		MB Result		τ	J nits	Analysis Date	Flag
Motor Oil Range Hydrocarb	ons (MRO)	<50.0		m	ng/kg	11.14.19 00:35	

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

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

LCS = Laboratory Control SampleA = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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

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BORATORIES



Flag

LT Environmental, Inc.

Coral Canyon Fed 4H

Analytical Method:	TPH by SV	V8015 M	od						Р	rep Meth	od: SW8	3015P
Seq Number:	3107504]	Matrix:	Soil				Date Pr	ep: 11.1	3.19
Parent Sample Id:	642783-010)		MS San	nple Id:	642783-01	10 S		MS	D Sampl	e Id: 6427	783-010 SD
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date
Gasoline Range Hydrocarbo	ons (GRO)	< 50.3	1010	1100	109	921	92	70-135	18	35	mg/kg	11.14.19 01:55
Diesel Range Organics ((DRO)	40.9	1010	1150	110	936	90	70-135	21	35	mg/kg	11.14.19 01:55
Surrogate					IS Rec	MS Flag	MSE %Re		_	limits	Units	Analysis Date
1-Chlorooctane				1	33		99		7	0-135	%	11.14.19 01:55
o-Terphenyl				1	28		94		7	0-135	%	11.14.19 01:55

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 8021 3107284 7690178-1-BLK	B	LCS San	Matrix: nple Id:	Solid 7690178-	1-BKS			Prep Metho Date Pre SD Sample	ep: 11.1	5030B 2.19 0178-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Lim	it Units	Analysis Date	Flag
Benzene	< 0.00100	0.100	0.0892	89	0.0933	93	70-130	4	35	mg/kg	11.12.19 21:12	
Toluene	< 0.00100	0.100	0.0910	91	0.0939	94	70-130	3	35	mg/kg	11.12.19 21:12	
Ethylbenzene	< 0.00100	0.100	0.0914	91	0.0943	94	71-129	3	35	mg/kg	11.12.19 21:12	
m,p-Xylenes	< 0.00200	0.200	0.195	98	0.201	101	70-135	3	35	mg/kg	11.12.19 21:12	
o-Xylene	< 0.00100	0.100	0.0992	99	0.102	102	71-133	3	35	mg/kg	11.12.19 21:12	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene	100		1	02		103		-	70-130	%	11.12.19 21:12	
4-Bromofluorobenzene	110		1	15		114			70-130	%	11.12.19 21:12	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 8021 3107284 642845-021	B		Matrix: nple Id:	Soil 642845-02	21 S			Prep Metho Date Pre SD Sample	ep: 11.1	5030B 2.19 845-021 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	O RPD Limi	it Units	Analysis Date	Flag
Benzene	< 0.000990	0.0990	0.0744	75	0.0941	93	70-130	23	35	mg/kg	11.13.19 09:46	
Toluene	< 0.000990	0.0990	0.0770	78	0.0953	94	70-130	21	35	mg/kg	11.13.19 09:46	
Ethylbenzene	< 0.000990	0.0990	0.0782	79	0.0957	95	71-129	20	35	mg/kg	11.13.19 09:46	
m,p-Xylenes	< 0.00198	0.198	0.168	85	0.205	101	70-135	20	35	mg/kg	11.13.19 09:46	
o-Xylene	< 0.000990	0.0990	0.0823	83	0.102	101	71-133	21	35	mg/kg	11.13.19 09:46	
Surrogate				1S Rec	MS Flag	MSD %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene			9	9		105			70-130	%	11.13.19 09:46	
4-Bromofluorobenzene			1	13		120			70-130	%	11.13.19 09:46	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

					Cha	Chain of Custodv	Cust	odv			V	Work Order No: _	er No:	642	125
XE	(ENCO		Hous	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	200 Dallas,T ;440) EL Pat	X (214) 902 so, TX (915)5	-0300 San . 85-3443 Lu	Antonio, TX (21 Jbbock, TX (806	0) 509-3334 5)794-1296					Dana	o. 4
			Hobbs, NM (575-	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-0000) Tallipa,FL (010-025-20007	AZ (480-355	5-0900) Aua	nta,GA (770	-449-00001	anipa, r L (o to to	10002-020		Work Order (Com	nents	
Project Manager: Da	Dan Moir			BIII to: (if different)		Kyle Littrell				Dennem'	INCT/DOT	GAG	PRP Brownfields	8	uperfund
Company Name: LT	LT Environmental, Inc., Permian office	, Inc., Permia	in office	Company Name:		XTO Energy				State of Project:	Diniant		NUMINION		
	3300 North A Street	et		Address:		3104 E Green Street	Street			State o	State of Project:		Jernier	d ÅÅ	
le ZIP:	Midland, TX 79705	თ		City, State ZIP:		Carlsbad, NM 88220	38220			Reporting:	Reporting:Level II Level III		L'SI/USI	5	
	432.236.3849		Em	Email: Idelval@Itenv.com	iv.com					Deliverables: EUU	es: EUU		AUart	Culor	
Name:	Inal Convin	Fed HH		Turn Around				ANALYS	SIS REQUEST	TST				Work Or	Work Order Notes
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me:	Benjamin Belill Luis Del W	uis Del L	7	Due Date:											
SAMPLE RECEIPT	T Temp Blank:	Blank: Yes No	No Wet Ice:	ce: Yes No	s			_							
Temperature (°C):	2.12		Thermometer ID		ainei)	.0)								
Received Intact:	S		T-JU-VA	+ CO+ W			300						TA	T starts the d	TAT starts the day received by the
Cooler Custody Seals:	Yes No	NA	Total Containers:	ers:)			(EP							lab, if receiv	lab, if received by 4:30pm
Sample Identification	(Matrix Date Sampled	e Time ied Sampled	od Depth	Numbe	BTEX (F	Chlorid							Sample	Sample Comments
SWOA		S IIII2124	124 1234	1 0.5-2'	1× X	X	×								
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	0 200.8 / 6020: and Metal(s) to be	20: be analyzed	8RCRA	RCRA 13PPM Texas 11 A	11 AI Sb RCRA Sb	Sb As Ba Be Sb As Ba Be	Be B Cd Be Cd Cr	B Cd Ca Cr Co Cd Cr Co Cu Pb	o Cu Fe Pb Mg Mn Mo Ni K Se Ag Mn Mo Ni Se Ag TI U	li Se Ag	TI U TI U	6	1631 /	Sr II Sn U V I 245.1 / 7470 J	Na Sr 11 Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions Notice: Signature of this document and relinquishment of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Xenco will be lable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Xenco will be lable only for the cost of samples and scharge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ble only for the cost	shment of sample of samples and s	s constitutes a va shall not assume a olect and a charge	ild purchase order fr any responsibility for a of \$5 for each samp	om client con any losses of le submitted t	npany to Xenc r expenses in to Xenco, but	o, its affiliate curred by the not analyzed	es and subcontr client if such i I. These terms v	actors. It assign osses are due to vill be enforced u	ns standard to circumstance unless previou	erms and con es beyond the usly negotiate	ditions control d.			
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Received by OCD: 4/8/2020 2:57:40 PM

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 11/12/2019 03:53:00 PM Temperature Measuring device used : T-NM-007 Work Order #: 642951 Comments Sample Receipt Checklist 2.6 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? Yes #5 Custody Seals intact on sample bottles? Yes #6*Custody Seals Signed and dated? Yes #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes

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

Analyst:

PH Device/Lot#:

#16 All samples received within hold time?

#18 Water VOC samples have zero headspace?

#17 Subcontract of sample(s)?

Checklist completed by: Elizabeth McClellan

Date: 11/12/2019

Yes

No

N/A

Checklist reviewed by: Jession Vramer

Jessica Kramer

Date: 11/14/2019