LT Environmental, Inc.

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

Advancing Opportunity

January 13, 2020

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

RE: Closure Request Sizzler State #001H Remediation Permit Numbers 2RP-4469 Eddy County, New Mexico

Dear Mr. Billings:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Sizzler State #001H (Site), located in Unit P, Section 6, Township 25 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacted soil resulting from a release of fresh 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 laboratory analytical results for soil samples collected at the Site, XTO is submitting this Closure Request, describing site assessment activities that have occurred and requesting no further action for the release event.

RELEASE BACKGROUND

On October 23, 2017, a valve on a hydraulic fracturing (frac) tank opened while transferring fluid between tanks. The tank overflowed causing approximately 56 barrels (bbls) of fresh water with limited preservative, biocide, and scale inhibitor to release onto the surface of the well pad. The release affected approximately 10,800 square feet of the well pad; no released fluid escaped the pad. Vacuum trucks were dispatched to the Site to recover free-standing fluids; approximately 50 bbls of fresh water were recovered. XTO reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 on November 3, 2017, and was assigned Remediation Permit (RP) Number 2RP-4469 (Attachment 1).





SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based on the nearest water well data. The closest permitted water well with depth to water data is New Mexico Office of the Sate Engineer (NM OSE) Well #C01880, located approximately 3,150 feet northwest of the Site. According to the NM OSE database, the well was installed and depth to water was measured in 1979. Based on the age of the well, LTE field personnel field-verified the presence or absence of the well. The well could not be located within an approximate 1,000 foot radius of the coordinates provided by the NM OSE. As part of remediation efforts at a nearby site, Corral Canyon #1H flowline (2RP-5201), LTE installed six monitoring wells (MW01 through MW06) to assess depth to groundwater. The groundwater monitoring wells are located approximately 5,920 feet east of the Site. Static water level measured in monitoring wells MW01 through MW06 on September 13, 2019, ranged from 57.26 feet bgs in monitoring well MW04 to 62.29 feet bgs in monitoring well MW02 with an average depth to water of 58.80 feet bgs. The depth to water measurements are provided in the table below and the location of the monitoring wells is identified on Figure 1.

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

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 the Pecos River, located approximately 1,750 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-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;
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg;
- TPH: 2,500 mg/kg; and
- Chloride: 10,000 mg/kg.

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On February 14, 2018, LTE personnel inspected the Site to evaluate the release extent. Five preliminary soil samples (SS01 through SS05) were collected within the release area to assess for potential soil impacts. The soil sample locations, depicted on Figure 2, were selected based on information provided on the initial Form C-141 and visible observations. To eliminate the effects from weathering and natural degradation of contaminants at the ground surface, the soil samples were collected from each sample location from a depth of 0.5 feet bgs.

During October 2019, LTE personnel returned to the site to collect vertical delineation soil samples via hand auger, to confirm the absence of impacted soil in the release area. Soil samples SS01A through SS05A, SS01B, and SS04B were collected from depths ranging from of 2 feet to 4 feet bgs at the SS01 through SS05 preliminary soil sample locations. Soil 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 select sample locations were logged on lithologic/soil sampling logs, which are included in Attachment 2. The soil sample locations were mapped utilizing a handheld Global Positing System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visits. Photographs are included in Attachment 3.

The 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 Hall Environmental Analysis Laboratory in Albuquerque, New Mexico or Xenco Laboratories in Midland, Texas, for analysis of BTEX following United States Environmental Protection Agency (USEPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following USEPA Method 8015M/D; and chloride following USEPA Method 300.0.





ANALYTICAL RESULTS

Laboratory analytical results indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in soil samples SS01/SS01A through SS05/SS05A, SS01B, and SS04B. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment and soil sampling activities were conducted to assess for potential soil impacts resulting from the October 23, 2017, fresh water release at the Site. Laboratory analytical results for soil samples SS01/SS01A through SS05/SS05A, SS01B, and SS04B, collected from depths ranging from 0.5 feet to 4 feet bgs, indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and no further remediation was required.

Fresh water with limited biocide, preservative, and scale inhibitor were the only fluids released. The majority of the released fluids were recovered during initial response activities. Based on visual observations, field screening, and laboratory analytical results, no impacted soil was identified as a result of the release. XTO requests no further action for RP Number 2RP-4469. An updated NMOCD Form C-141 is included as Attachment 1.

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

Sincerely,

LT ENVIRONMENTAL, INC.

mée Cole

Aimee Cole Project Environmental Scientist

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

Ushley L. ager

Ashley Ľ. Áger, P.G. Senior Geologist





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Attachments:

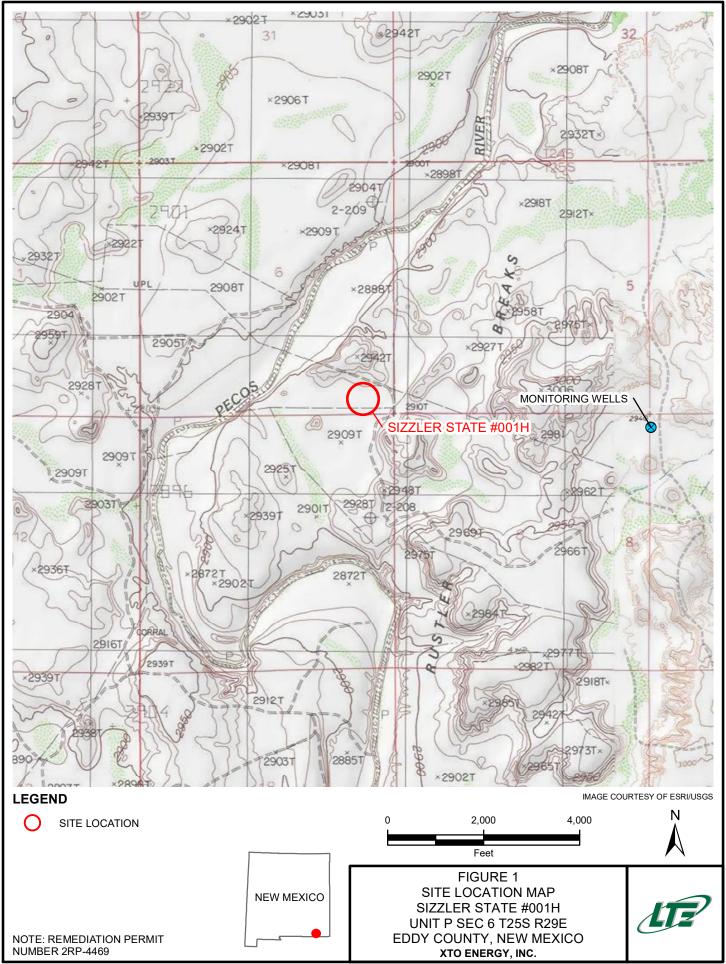
- Figure 1 Site Location Map
- Figure 2 Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Initial/Final NMOCD Form C-141 (2RP-4469)
- Attachment 2 Lithologic/Soil Sample Logs
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports

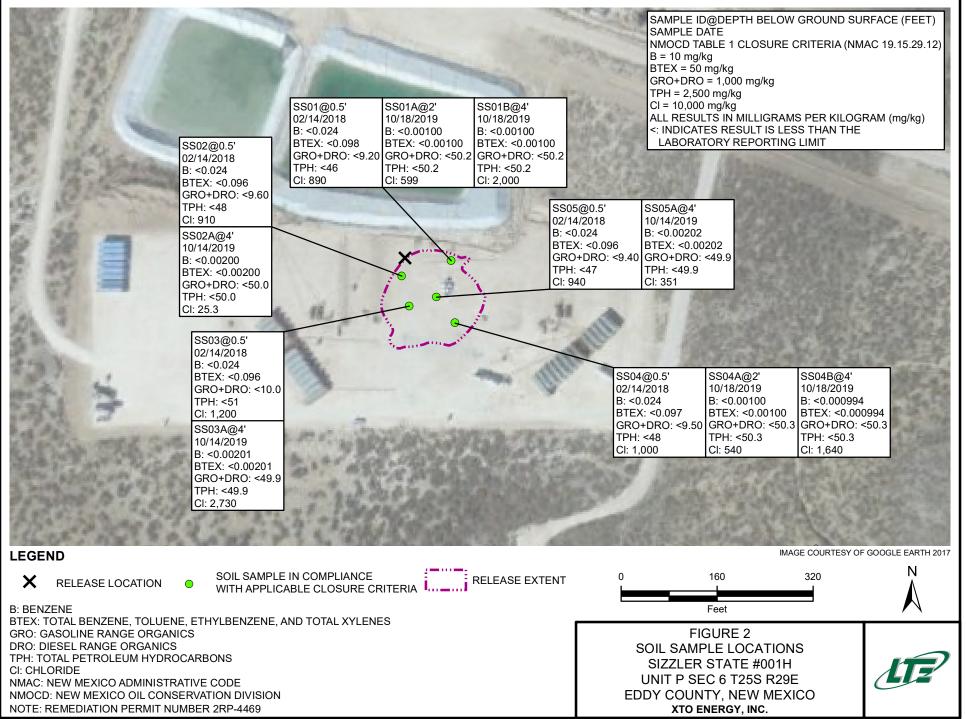


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FIGURES







P:\XTO Energy\GIS\MXD\012917049_SIZZLER STATE #001H\012917049_FIG02_PRELIMINARY_4469.mx

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TABLES



TABLE 1 SOIL ANALYTICAL RESULTS

SIZZLER STATE #001H REMEDIATION PERMIT NUMBER 2RP-4469 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)
SS01	0.5	02/14/2018	<0.024	<0.049	<0.049	<0.098	<0.098	<4.90	<9.20	<46.0	<9.20	<46.0	890
SS01A	2	10/18/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.2	<50.2	<50.2	<50.2	<50.2	599
SS01B	4	10/18/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.2	<50.2	<50.2	<50.2	<50.2	2,000
SS02	0.5	02/14/2018	<0.024	<0.048	<0.048	<0.096	<0.096	<4.80	<9.60	<48.0	<9.60	<48.0	910
SS02A	4	10/14/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	25.3
SS03	0.5	02/14/2018	<0.024	<0.048	<0.048	<0.096	<0.096	<4.80	<10.0	<51.0	<10.0	<51.0	1,200
SS03A	4	10/14/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	2,730
SS04	0.5	02/14/2018	<0.024	<0.048	<0.048	<0.097	<0.097	<4.80	<9.50	<48.0	<9.50	<48.0	1,000
SS04A	2	10/18/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.3	<50.3	<50.3	<50.3	<50.3	540
SS04B	4	10/18/2019	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<50.3	<50.3	<50.3	<50.3	<50.3	1,640
SS05	0.5	02/14/2018	<0.024	<0.048	<0.048	<0.096	<0.096	<4.80	<9.40	<47.0	<9.40	<47.0	940
SS05A	4	10/14/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	351
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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NM OIL CONSERVATION

ARTESIA DISTRICT

District I State o	f New Mexico				
	s and Natural Resource NOV 0 3 2017 Form C-141 Revised August 8, 2011				
811 S. FIRST SL, Artesia, NM 88210					
1000 KIO DIAZOS KOAU, AZIEC, NIVI 8/410	accordance with 19.15.29 NMAC.				
1730 C St Expensio De Conto En NIA 97605					
	Fe, NM 87505				
· · · · · · · · · · · · · · · · · · ·	on and Corrective Action				
NAB1731041742	OPERATOR Initial Report Final Report				
Name of Company: XTO Energy 5380	Contact: Kyle Littrell				
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Facility Name: Sizzler State #001H	Telephone No. 432-221-7331 Facility Type: Exploration and Production				
Surface Owner: State of NM Mineral Owner	: Federal STATE API No. 30-015-43956				
LOCATIO	DN OF RELEASE				
	th/South Line Feet from the East/West Line County				
P 6 25S 29E 265 Sout	th 725 East Eddy				
Latitude32.152538°	Longitude104.017833°				
NATURI	E OF RELEASE				
Type of Release Fresh water with < .5 gallon mixture of	Volume of Release 56 bbls Volume Recovered 50 bbls				
preservative, biocide and scale inhibitor					
Source of Release Frac Tanks	Date and Hour of OccurrenceDate and Hour of Discovery10/23/2017 5:45 pm10/23/2017 5:45 pm				
Was Immediate Notice Given?	If YES, To Whom?				
🛛 Yes 🗌 No 🗌 Not Require	d Mike Bratcher and Crystal Weaver (NMOCD), Amber Groves (SLO)				
By Whom? Amy Ruth	Date and Hour 10/24/2017 3:59 pm by email				
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse. N/A				
If a Watercourse was Impacted, Describe Fully.* N/A					
9 00%->>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>					
Describe Cause of Problem and Remedial Action Taken.*	d overflowing the tank and distributed water to the well pad. The open valve was				
then securely closed. Future projects will be designed to prevent recurr					
Describe Area Affected and Cleanup Action Taken.*					
The leak affected approximately 10,800 square feet of caliche pad. Free	e standing fluids were recovered.				
I hereby certify that the information given above is true and complete to	the best of my knowledge and understand that pursuant to NMOCD 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 should their operations have failed to adequately investigate and remedi	the NMOCD marked as "Final Report" does not relieve the operator of liability tate contamination that pose a threat to ground water, surface water, human health				
or the environment. In addition, NMOCD acceptance of a C-141 report	t does not relieve the operator of responsibility for compliance with any other				
federal, state, or local laws and/or regulations.	OIL CONSERVATION DIVISION				
and the	OIL CONSERVATION DIVISION				
Signature	(1, 1, 2, 2, 3, 1, N)				
Printed Name: Kyle Littrell	Approved by Environmental Specialist:				
I THING WE INTE LINUCH					
Title: Environmental Coordinator	Approval Date: 11 0117 Expiration Date: N/A				
E-mail Address: Kylc Littrell@xtoenergy.com	Conditions of Approval:				
	Attached				
Date: 11/3/2017 Phone: 432-221-7331					
Date: 11/3/2017 Phone: 432-221-7331 QCOMMENCE Attach Additional Sheets If Necessary Please refer to the New Mexico Oil * Attach Additional Sheets If Necessary Please refer to the New Mexico Oil QCOMMENCE QCOMMENCE QCOMMENCE					
Conservation Division W updated form(s) at:	Mexico Oil				
updated form(s) at:	ebsite for				
<u>(ittp://www.emprd -</u>					
<u>http://www.emnrd.state</u> <u>OCD/ forms.html</u>	<u>nm.us/</u>				

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	2RP-4469
Facility ID	
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-4469	
Contact mailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220		

Location of Release Source

Latitude <u>N 32.152538</u>

Longitude W -104.017833 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Sizzler State #001H	Site Type: Production Well Facility
Date Release Discovered: 10/23/2017	API# (if applicable): 30-015-43956

Unit Letter	Section	Township	Range	County
Р	6	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):	Volume Recovered (bbls):
Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe) Fresh water with < 0.5 gallon of preservative, biocide and scale inhibitor	Volume/Weight Released (provide units) 56 bbls	Volume/Weight Recovered (provide units) 50 bbls

Cause of Release

During transfer of fluid between frac tanks, a valve on a frac tank opened. The tank overflowed and released fresh water to the well pad. Free-standing fluids were recovered.

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Oil Conservation Division

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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	Release volume was greater than 25 bbls.
19.15.29.7(A) NMAC?	
🛛 Yes 🗌 No	
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
By Amy Ruth to Mike Br	atcher/Crystal Weaver (NMOCD) and Amber Groves (SLO) on 10/24/2017 at 3:59 pm via email.

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: <u>1-10-2020</u>
	elephone:432-221-7331
OCD Only	
Received by:	Date:

Received by OCD: 2/21/2020 9:34:02 AM Form C-141 State of New Mexico

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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?						
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
- 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.

<i>eceived by OCD: 2/21/20</i> orm C-141	20 9:34:02 AM State of New Mexic	20	La siderat ID	Page 16 o
age 4	Oil Conservation Divi	ision	Incident ID District RP	2RP-4469
			Facility ID	
			Application ID	
public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name:Kyle	required to report and/or file certain relea ment. The acceptance of a C-141 report l rate and remediate contamination that pos f a C-141 report does not relieve the oper <u>Littrell</u>	by the OCD does not relieve the se a threat to groundwater, surfa rator of responsibility for comp Title:SH&E St	e operator of liability sh ace water, human health liance with any other fe upervisor	ould their operations have or the environment. In deral, state, or local laws
email: <u>Kyle Litt</u>	ell@xtoenergy.com	Telephone:	(432)-221-7331	
OCD Only Received by:		Date:		

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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	items must be included in the closure report.					
A scaled site and sampling diagram as described in 19.15.29.11 NMAC						
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)						
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)					
Description of remediation activities						
and regulations all operators are required to report and/or file certaid 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 onditions that existed prior to the release or their final land use in					
Printed Name:Kyle Littrell	Title:SH&E Supervisor					
Signature:	Date: <u>1-10-2020</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:	Date:					
Printed Name:	Title:					

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LT Environmental, Inc.	LT Environmental, Inc. LT Environmental, Inc. 508 West Stevens Street						Identifier: SS01 Project Name: Sizzler State #001H	Date: 10/18/19 RP Number: 2RP-4469	
	LITHOLO	GIC / SOII	SAMPI	LING LO)G		Logged By: Anna Byers	Method: Back Hoe	
Field Screening: M	ini Rae PID and	d HACH Low Ra	nge Chlorid	de Test Stri	ps		Hole Diameter: N/A	Total Depth: 4 ft	
Comments: Chloric SS01 at 0.5 ft depth			hout 40% c	orrection fa	ctor				
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks			
Dry 980	0 N	No			Caliche	Non-nati [,]	ve (pad surface)		
Dry 648	0 N	No SS01A	2 -	2	Caliche	White, w	ell-cemented, poorly sorted ca	liche	
Dry 1636		NO SSO1B	3 4 5 6 7 8 9 10 11		Caliche	White, m	oderately-cemented, poorly so Total Depth	nted caliche	

LT Environmental, Inc.	LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation							Date: 10/18/19 RP Number: 2RP-4469		
	LITHOLOG	IC / SOII	L SAMPI	LING LO)G		Logged By: Anna Byers	Method: Back Hoe		
Field Screening: Mi	ni Rae PID and H	IACH Low R	ange Chlorio	de Test Stri	ps		Hole Diameter: N/A	Total Depth: 4 ft		
Comments: Chlorid			hout 40% c	orrection fa	ctor					
SS01 at 0.5 ft depth										
Moisture Content Chloride (ppm)	Vapor (ppm) Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks				
Dry 488	0 No	,	0		Caliche	Non-nati	ve (pad surface)			
Dry 648	0 No	SS04A	2	2	SM	Brown po	oorly graded silt sand (m.); no	odor, no plasticity		
Dry 1752	0 No	SS04B	3 4 5 6 7 8 9 10 11 11		SM	Brown po	oorly graded silt sand (m.); no Total Depth	odor, no plasticity		

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ATTACHMENT 3: PHOTOGRAPHIC LOG





Photograph 1: View of well pad release area.



Photograph 3: View of well pad release area.

PHOTOGRAPHIC LOG



Photograph 2: View of well pad release area.



Photograph 4: View of well pad release area.



Sizzler State #001H Eddy County, New Mexico Photographs Taken: February 2018

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February 27, 2018

Kyle Littlrell LTE 3300 N A St Bldg 1 #103 Midland, TX 79705 TEL: (432) 704-5178 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Sizzler State 001H

OrderNo.: 1802A28

Dear Kyle Littlrell:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/17/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1802A28

Lab Order **1802A28** Date Reported: **2/27/2018**

CLIENT: LTE		C	lient Sample	ID: SS01					
Project: Sizzler State 001H	Collection Date: 2/14/2018 5:00:00 PM								
Lab ID: 1802A28-001	Matrix: S	SOIL	ate: 2/17/20	te: 2/17/2018 10:00:00 AM					
Analyses	Result	PQL Qual	Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;			Analyst: TOM				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/21/2018 5:22:32 PM				
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/21/2018 5:22:32 PM				
Surr: DNOP	90.9	70-130	%Rec	1	2/21/2018 5:22:32 PM				
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/21/2018 8:30:49 PM				
Surr: BFB	89.6	15-316	%Rec	1	2/21/2018 8:30:49 PM				
EPA METHOD 8021B: VOLATILES					Analyst: NSB				
Benzene	ND	0.024	mg/Kg	1	2/21/2018 8:30:49 PM				
Toluene	ND	0.049	mg/Kg	1	2/21/2018 8:30:49 PM				
Ethylbenzene	ND	0.049	mg/Kg	1	2/21/2018 8:30:49 PM				
Xylenes, Total	ND	0.098	mg/Kg	1	2/21/2018 8:30:49 PM				
Surr: 4-Bromofluorobenzene	89.3	80-120	%Rec	1	2/21/2018 8:30:49 PM				
EPA METHOD 300.0: ANIONS					Analyst: CJS				
Chloride	890	30	mg/Kg	20	2/23/2018 7:22:25 AM				

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

11

Analytical Report Lab Order 1802A28

Date Reported: 2/27/2018

CLIENT: LTE	Client Sample ID: SS02							
Project: Sizzler State 001H		ate: 2/14/20	018 5:05:00 PM					
Lab ID: 1802A28-002	Matrix:	SOIL	Received D	Received Date: 2/17/2018 10:00:00 AM				
Analyses	Result	PQL Qual	Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS	;			Analyst: TOM			
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/21/2018 6:28:29 PM			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/21/2018 6:28:29 PM			
Surr: DNOP	92.5	70-130	%Rec	1	2/21/2018 6:28:29 PM			
EPA METHOD 8015D: GASOLINE RANG	ε				Analyst: NSB			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/21/2018 10:37:48 AM			
Surr: BFB	91.2	15-316	%Rec	1	2/21/2018 10:37:48 AM			
EPA METHOD 8021B: VOLATILES					Analyst: NSB			
Benzene	ND	0.024	mg/Kg	1	2/21/2018 10:37:48 AM			
Toluene	ND	0.048	mg/Kg	1	2/21/2018 10:37:48 AM			
Ethylbenzene	ND	0.048	mg/Kg	1	2/21/2018 10:37:48 AM			
Xylenes, Total	ND	0.096	mg/Kg	1	2/21/2018 10:37:48 AM			
Surr: 4-Bromofluorobenzene	89.9	80-120	%Rec	1	2/21/2018 10:37:48 AM			
EPA METHOD 300.0: ANIONS					Analyst: MRA			
Chloride	910	30	mg/Kg	20	2/23/2018 12:09:28 PM			

Qualifie	rs: *	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

11

Analytical Report
Lab Order 1802A28

Date Reported: 2/27/2018

CLIENT: LTE		C	lient Sample	ID: SS03	
Project: Sizzler State 001H			Collection D	ate: 2/14/20	018 5:10:00 PM
Lab ID: 1802A28-003	Matrix:	SOIL	Received D	ate: 2/17/20	018 10:00:00 AM
Analyses	Result	PQL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE		6			Analyst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/21/2018 6:50:16 PM
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	2/21/2018 6:50:16 PM
Surr: DNOP	92.8	70-130	%Rec	1	2/21/2018 6:50:16 PM
EPA METHOD 8015D: GASOLINE RANG	ε				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/21/2018 11:47:57 AM
Surr: BFB	89.4	15-316	%Rec	1	2/21/2018 11:47:57 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	2/21/2018 11:47:57 AM
Toluene	ND	0.048	mg/Kg	1	2/21/2018 11:47:57 AM
Ethylbenzene	ND	0.048	mg/Kg	1	2/21/2018 11:47:57 AM
Xylenes, Total	ND	0.096	mg/Kg	1	2/21/2018 11:47:57 AM
Surr: 4-Bromofluorobenzene	89.6	80-120	%Rec	1	2/21/2018 11:47:57 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	1200	30	mg/Kg	20	2/23/2018 12:46:41 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1802A28

Lab Order **1802A28**Date Reported: **2/27/2018**

CLIENT: LTE			Client San	nple ID: SS04	
Project: Sizzler St	ate 001H		Collectio	on Date: 2/14/2	2018 5:15:00 PM
Lab ID: 1802A28	-004 Matri	x: SOIL	Receive	ed Date: 2/17/2	2018 10:00:00 AM
Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015	M/D: DIESEL RANGE ORGAN	lics			Analyst: TOM
Diesel Range Organi	cs (DRO) NE	9.5	mg/Kg	1	2/21/2018 7:12:14 PM
Motor Oil Range Org	anics (MRO) ND	48	mg/Kg	1	2/21/2018 7:12:14 PM
Surr: DNOP	94.4	70-130	%Rec	1	2/21/2018 7:12:14 PM
EPA METHOD 8015	D: GASOLINE RANGE				Analyst: NSB
Gasoline Range Org	anics (GRO) ND	4.8	mg/Kg	1	2/21/2018 12:58:21 PM
Surr: BFB	89.5	5 15-316	%Rec	1	2/21/2018 12:58:21 PM
EPA METHOD 8021	B: VOLATILES				Analyst: NSB
Benzene	NE	0.024	mg/Kg	1	2/21/2018 12:58:21 PM
Toluene	ND	0.048	mg/Kg	1	2/21/2018 12:58:21 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/21/2018 12:58:21 PM
Xylenes, Total	ND	0.097	mg/Kg	1	2/21/2018 12:58:21 PM
Surr: 4-Bromofluo	robenzene 89.4	80-120	%Rec	1	2/21/2018 12:58:21 PM
EPA METHOD 300.	0: ANIONS				Analyst: MRA
Chloride	1000	30	mg/Kg	20	2/23/2018 12:59:05 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1802A28

Lab Order **1802A28** Date Reported: **2/27/2018**

CLIENT: LT	ГЕ		0	Client Sample	ID: SS05	
Project: Siz	zzler State 001H			Collection D	ate: 2/14/20	018 5:20:00 PM
Lab ID: 18	302A28-005	Matrix: S	OIL	Received D	ate: 2/17/20	018 10:00:00 AM
Analyses		Result	PQL Qual	Units	DF	Date Analyzed
EPA METHO	D 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: TOM
Diesel Range	e Organics (DRO)	ND	9.4	mg/Kg	1	2/21/2018 7:34:00 PM
Motor Oil Ra	inge Organics (MRO)	ND	47	mg/Kg	1	2/21/2018 7:34:00 PM
Surr: DNC)P	96.4	70-130	%Rec	1	2/21/2018 7:34:00 PM
EPA METHO	D 8015D: GASOLINE R	ANGE				Analyst: NSB
Gasoline Ra	nge Organics (GRO)	ND	4.8	mg/Kg	1	2/21/2018 1:21:40 PM
Surr: BFB		86.4	15-316	%Rec	1	2/21/2018 1:21:40 PM
EPA METHO	D 8021B: VOLATILES					Analyst: NSB
Benzene		ND	0.024	mg/Kg	1	2/21/2018 1:21:40 PM
Toluene		ND	0.048	mg/Kg	1	2/21/2018 1:21:40 PM
Ethylbenzen	e	ND	0.048	mg/Kg	1	2/21/2018 1:21:40 PM
Xylenes, Tot	al	ND	0.096	mg/Kg	1	2/21/2018 1:21:40 PM
Surr: 4-Br	omofluorobenzene	87.9	80-120	%Rec	1	2/21/2018 1:21:40 PM
EPA METHO	D 300.0: ANIONS					Analyst: MRA
Chloride		940	30	mg/Kg	20	2/23/2018 1:11:30 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

KEFUKI	WO#:	1802A28	
al Analysis Laboratory, Inc.		27-Feb-18	

Client: Project:	LTE Sizzler	State 001H		
•	MB-36684	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 36684	RunNo: 49353	
Prep Date:	2/22/2018	Analysis Date: 2/23/2018	SeqNo: 1593362 Units: mg/Kg	
Analyte Chloride			SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Sample ID	LCS-36684	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 36684	RunNo: 49353	
Prep Date:	2/22/2018	Analysis Date: 2/23/2018	SeqNo: 1593363 Units: mg/Kg	
Analyte			SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		14 1.5 15.00	0 91.4 90 110	
Sample ID	MB-36693	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 36693	RunNo: 49346	
Prep Date:	2/23/2018	Analysis Date: 2/23/2018	SeqNo: 1594198 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		ND 1.5		
Sample ID	LCS-36693	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 36693	RunNo: 49346	
Prep Date:	2/23/2018	Analysis Date: 2/23/2018	SeqNo: 1594199 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		14 1.5 15.00	0 93.3 90 110	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 6 of 11

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	Page	31	of	76
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UKI	WO#:	1802A28	
lysis Laboratory, Inc.		27-Feb-18	

Client: Project:	LTE Sizzler S	tate 001H									
Sample ID	LCS-36619	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 36	619	F	RunNo: 4	9268				
Prep Date:	2/20/2018	Analysis Da	ate: 2/	21/2018	S	SeqNo: 1	590084	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	46	10	50.00	0	91.5	70	130			
Surr: DNOP		4.4		5.000		88.8	70	130			
Sample ID	MB-36619	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 36	619	F	RunNo: 4	9268				
Prep Date:	2/20/2018	Analysis Da	ate: 2/	21/2018	S	SeqNo: 1	590085	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		11		10.00		106	70	130			
Sample ID	1802A28-001AMS	SampTy	/pe: M\$	6	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	SS01	Batch	ID: 36	619	F	RunNo: 4	9268				
Prep Date:	2/20/2018	Analysis Da	ate: 2/	21/2018	5	SeqNo: 1	590871	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	46	10	50.86	4.015	82.5	55.8	125			
Surr: DNOP		4.3		5.086		83.7	70	130			
Sample ID	1802A28-001AMS	D SampTy	/pe: MS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	SS01	Batch	ID: 36	619	F	RunNo: 4	9268				
Prep Date:	2/20/2018	Analysis Da	ate: 2/	21/2018	S	SeqNo: 1	590872	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	44	9.2	45.83	4.015	86.5	55.8	125	5.16	20	
Surr: DNOP		3.6		4.583		79.2	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1802A28
	27-Feb-18

Page 8 of 11

Client: LTE				
Project: Sizzl	er State 001H			
Sample ID MB-36613	SampType: MBLK	TestCode: FPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 36613	RunNo: 49302	ourob. Casoline Kange	
Prep Date: 2/20/2018	Analysis Date: 2/21/2018	SegNo: 1590906	Units: mg/Kg	
		SPK Ref Val %REC LowLimit		Qual
Analyte Gasoline Range Organics (GRO)		SPK Rei Val %REC LOWLINII	HighLimit %RPD RPDLimit	Quai
Surr: BFB	930 1000	93.2 15	316	
Sample ID LCS-36613	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 36613	RunNo: 49302		
Prep Date: 2/20/2018	Analysis Date: 2/21/2018	SeqNo: 1590907	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	29 5.0 25.00	0 114 75.9	131	
Surr: BFB	1000 1000	102 15	316	
Sample ID 1802A28-003/	AMS SampType: MS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: SS03	Batch ID: 36613	RunNo: 49302		
Prep Date: 2/20/2018	Analysis Date: 2/21/2018	SeqNo: 1590919	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)		0 121 77.8	128	
Surr: BFB	1000 982.3	104 15	316	
Sample ID 1802A28-003	AMSD SampType: MSD	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: SS03	Batch ID: 36613	RunNo: 49302		
Prep Date: 2/20/2018	Analysis Date: 2/21/2018	SeqNo: 1590920	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)		0 134 77.8	128 10.4 20	S
Surr: BFB	1000 985.2	104 15	316 0 0	
Sample ID MB-36607	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 36607	RunNo: 49303		
Prep Date: 2/20/2018	Analysis Date: 2/21/2018	SeqNo: 1590999	Units: mg/Kg	
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)				
Surr: BFB	860 1000	86.4 15	316	
Sample ID LCS-36607	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 36607	RunNo: 49303		
1				
Prep Date: 2/20/2018	Analysis Date: 2/21/2018	SeqNo: 1591000	Units: mg/Kg	
Prep Date: 2/20/2018 Analyte		SeqNo: 1591000 SPK Ref Val %REC LowLimit	0 0	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

L.	UC SUMINIARI REFURI Hall Environmental Analysis Laboratory, Inc.							
Hall Env	rironmental Analysis Laboratory, Inc.		27-Feb-18					
Client:	LTE							

Project: Sizzler	State 001H									
Sample ID LCS-36607	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batch	n ID: 36	607	R	RunNo: 4	9303				
Prep Date: 2/20/2018	Analysis D	ate: 2/	21/2018	S	SeqNo: 1	591000	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.7	75.9	131			
Surr: BFB	1100		1000		107	15	316			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 9 of 11

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1802A28
	27-Feb-18

Client:	LTE										
Project:		State 001H									
Sample ID	MB-26612	SamaT	ype: ME		Tos	tCodo: E	BA Mothod	8021B: Vola	tilos		
Client ID:	PBS		n ID: 36			RunNo: 4		0021D. VOId	liles		
Prep Date:	-	Analysis D				SeqNo: 1		Units: mg/k	(a		
	2/20/2010	-						-	-		A
Analyte Benzene		Result ND	PQL 0.025	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene		ND	0.025								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	0.90		1.000		90.0	80	120			
Sample ID	LCS-36613	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	n ID: 36	613	F	RunNo: 4	19302				
Prep Date:	2/20/2018	Analysis D	ate: 2/	21/2018	S	SeqNo: 1	590959	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.1	0.025	1.000	0	110	77.3	128			
Toluene		1.1	0.050	1.000	0	108	79.2	125			
Ethylbenzene		1.1	0.050	1.000	0	107	80.7	127			
Xylenes, Total		3.3	0.10	3.000	0	110	81.6	129			
Surr: 4-Brom	nofluorobenzene	0.94		1.000		93.6	80	120			
Sample ID	1802A28-002AMS	S SampT	ype: M	6	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	SS02	Batch	n ID: 36	613	F	RunNo: 4	19302				
Prep Date:	2/20/2018	Analysis D	ate: 2/	21/2018	5	SeqNo: 1	590961	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.2	0.024	0.9597	0	124	80.9	132			
Toluene		1.2	0.048	0.9597	0.009836	124	79.8	136			
Ethylbenzene		1.2	0.048	0.9597	0	126	79.4	140			
Xylenes, Total		3.7	0.096	2.879	0	127	78.5	142			
	ofluorobonzono	0.86		0.9597			00	120			
Surr: 4-Brom	Iondorobenzene	0.00		0.9597		89.3	80	120			
	1802A28-002AMS		ype: M \$		Tes			8021B: Vola	tiles		
		D SampT	ÿpe: M \$ n ID: 36	SD			PA Method		tiles		
Sample ID	1802A28-002AMS SS02	D SampT	n ID: 36	SD 613	F	tCode: E	PA Method				
Sample ID Client ID:	1802A28-002AMS SS02	SD SampT Batch	n ID: 36	SD 613 21/2018	F	tCode: E RunNo: 4	PA Method	8021B: Vola		RPDLimit	Qual
Sample ID Client ID: Prep Date:	1802A28-002AMS SS02	SD SampT Batch Analysis D	n ID: 36 Pate: 2/	SD 613 21/2018	F	tCode: E RunNo: 4 SeqNo: 1	PA Method 19302 1590962	8021B: Vola Units: mg/ł	٢g	RPDLimit 20	Qual
Sample ID Client ID: Prep Date: Analyte	1802A28-002AMS SS02	D SampT Batch Analysis D Result	n ID: 36 Pate: 2/ PQL	5D 613 21/2018 SPK value	F S SPK Ref Val	tCode: E RunNo: 4 SeqNo: 1 %REC	PA Method 19302 1590962 LowLimit	8021B: Vola Units: mg/k HighLimit	(g %RPD		Qual
Sample ID Client ID: Prep Date: Analyte Benzene	1802A28-002AMS SS02	5D SampT Batch Analysis D Result 1.1 1.2 1.2	n ID: 36 Pate: 2/ PQL 0.024	5D 613 21/2018 SPK value 0.9470 0.9470 0.9470	F S SPK Ref Val 0	tCode: E RunNo: 4 SeqNo: 1 <u>%REC</u> 121	EPA Method 19302 1590962 LowLimit 80.9	8021B: Vola Units: mg/k HighLimit 132	(g <u>%RPD</u> 4.44	20	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	1802A28-002AMS SS02 2/20/2018	5D SampT Batch Analysis D <u>Result</u> 1.1 1.2	PQL 0.024 0.047	5D 613 21/2018 SPK value 0.9470 0.9470	F S SPK Ref Val 0 0.009836	tCode: E RunNo: 4 SeqNo: 1 <u>%REC</u> 121 121	EPA Method 19302 1590962 LowLimit 80.9 79.8	8021B: Vola Units: mg/P HighLimit 132 136	(g %RPD 4.44 3.85	20 20	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 10 of 11

LTE

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	1802A28
ory, Inc.		27-Feb-18

Project: Sizzler S	State 001H									
Sample ID MB-36607	SampT	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	Batch ID: 36607 RunNo: 49303								
Prep Date: 2/20/2018	Analysis D	ate: 2/	21/2018	S	SeqNo: 1	591037	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.83		1.000		82.8	80	120			
Surr: 4-Bromofluorobenzene Sample ID LCS-36607		ype: LC		Tes			120 8021B: Volat	tiles		
	SampT	ype: LC	S			PA Method	-	tiles		
Sample ID LCS-36607	SampT	n ID: 36	:S 607	R	tCode: El	PA Method 9303	-			
Sample ID LCS-36607 Client ID: LCSS	SampT Batch	n ID: 36	S 607 21/2018	R	tCode: El RunNo: 4	PA Method 9303	8021B: Volat		RPDLimit	Qual
Sample ID LCS-36607 Client ID: LCSS Prep Date: 2/20/2018	SampT Batch Analysis D	n ID: 36 Date: 2/	S 607 21/2018	ਸ 2	tCode: El RunNo: 4 SeqNo: 1	PA Method 9303 591038	8021B: Volat	ſg	RPDLimit	Qual
Sample ID LCS-36607 Client ID: LCSS Prep Date: 2/20/2018 Analyte Benzene	SampT Batch Analysis D Result	n ID: 36 Date: 2/ PQL	5 607 21/2018 SPK value	R S SPK Ref Val	tCode: El RunNo: 4 SeqNo: 1 %REC	PA Method 9303 591038 LowLimit	8021B: Volat Units: mg/K HighLimit	ſg	RPDLimit	Qual
Sample ID LCS-36607 Client ID: LCSS Prep Date: 2/20/2018 Analyte	SampT Batch Analysis D Result 0.79	n ID: 36 Date: 2/ PQL 0.025	5 607 21/2018 SPK value 1.000	R S SPK Ref Val 0	tCode: El RunNo: 4 SeqNo: 1 %REC 79.4	PA Method 9303 591038 LowLimit 77.3	8021B: Volat Units: mg/K HighLimit 128	ſg	RPDLimit	Qual
Sample ID LCS-36607 Client ID: LCSS Prep Date: 2/20/2018 Analyte Benzene Toluene	SampT Batch Analysis D Result 0.79 0.88	Date: 2/ PQL 0.025 0.050	5 607 21/2018 SPK value 1.000 1.000	R S SPK Ref Val 0 0	tCode: El RunNo: 4 SeqNo: 1 %REC 79.4 87.9	PA Method 9303 591038 LowLimit 77.3 79.2	8021B: Volat Units: mg/k HighLimit 128 125	ſg	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 11 of 11

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345	ental Analysis Labora 4901 Hawkin: Albuquerque, NM 83 -3975 FAX: 505-345-4 ww.hallenvironmental.	s NE 7109 San 4107	nple Log-In Check List
Client Name: LTE MIDLAND	Work Order Nur	mber: 1802A28		RcptNo: 1
Received By: Ashley Gallegos	2/17/2018 10:00:0	00 AM	AZ	
Completed By: Ashley Gallegos	2/19/2018 3:01:54	PM	A	
Reviewed By: AQ 02	19/18	labeled	by: <u>s</u>	see 02/19/18
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🔽	No 🗔	Not Present
2. How was the sample delivered?		<u>Courier</u>		
Log In 3. Was an attempt made to cool the same	nples?	Yes 🗹	No 🗌	NA 🗀
4. Were all samples received at a tempe	erature of >0° C to 6.0°C	Yes 🗹	No 🗌	
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌	
6. Sufficient sample volume for indicated	test(s)?	Yes 🔽	No 🗌	
7. Are samples (except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌	
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗔
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🗹
10, Were any sample containers received	I broken?	Yes 🗌	No 🗹	# of preserved
11. Does paperwork match bottle labels? (Note discrepancies on chain of custo	dy)	Yes 🗹	No 🗆	bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Ch	ain of Custody?	Yes 🔽	No 🗌	Adjusted?
13. Is it clear what analyses were request		Yes 🗹	No 🗌	
14. Were all holding times able to be met? (If no, notify customer for authorization		Yes 🗹	No 🗌	Checked by:
Special Handling (if applicable)				
15. Was client notified of all discrepancies	s with this order?	Yes 🗌	No 🗌	NA 🗹
Person Notified:	Date			
By Whom:	Via:	eMail 📋 Ph	one 🗌 Fax	In Person
Regarding:		<u> </u>		
Client Instructions:			BARAR BARAR ANY COMMON OF MARKET AND	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1
16. Additional remarks:				
17. <u>Cooler Information</u> Cooler No Temp °C Condition 1 2.0 Good	Yes	Seal Date S	Signed By	
	193	!		

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Permian	📩 🗠 🗆 🗠 🗠 🗠				AL	YSI	A S	BOR	ANALYSIS LABORATORY	7
				3	ww.hall	environ	www.hallenvironmental.com	E CO		
N. 4. 54	Sizzler State	H100#	490,	4901 Hawkins NE - Albuquerque, NM 87109	S NE -	Albuqu	erque, h	VM 8710	60	
SOEDE	Project #:		Tel.	505-345-3975	-3975	Fax	505-345-4107	5-4107		
704. 5178	30-015-43956	3956			A	nalysis	Analysis Request	st		
baker@Henv.com	Project Manager:			_		(*c	_			_
Level 4 (Full Validation)	XTO-Kyle 1 Direct	Littrell H B ; II		aw+		PO4,50	a pallenta.	10	1:0	
	. D. Burns	+22h-045-10£	Нат	(11)		' ^z ON'	Vit-terme		02	(N
	On Ice: IX Yes	O No	+ 3	814		_	10.000	(AC		or
	Sample Temperature:).5	1.9+0.1=3.D	185	po		_	epio	0/-!	700	Y) e
Sample Request ID	Container Preservative Type and # Type	HEAL NO.	RTEX + MI	ntem Hqt	атым) воз АИЧ) 0168	M 8 АЯЭЯ D, Я) snoinA	ilteag 1808 0V) 80828	me2) 0728	C MILLE	Air Bubbles
1055	1- yoz cool	100-	Â	V						-
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Relinquished by:	Received by	2-16/15/1530	Remarks: AP1:	30.015-43956	1-5	1395	- 9			-
Skhed by	Regined by DZIIIIX	Date Time	281	2RP- 4469	69					

for LT Environmental, Inc.

Project Manager: Aimee Cole

Sizzler State #001H

012917049

21-OCT-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483) Received by OCD: 2/21/2020 9:34:02 AM



21-OCT-19

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

Reference: XENCO Report No(s): 640162 Sizzler State #001H 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) 640162. 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. 640162 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 640162

Sizzler State #001H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS02A	S	10-14-19 13:15	4 ft	640162-001
SS03A	S	10-14-19 13:20	4 ft	640162-002
SS05A	S	10-14-19 13:25	4 ft	640162-003





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Client Name: LT Environmental, Inc. Project Name: Sizzler State #001H

 Project ID:
 012917049

 Work Order Number(s):
 640162

Report Date: 21-OCT-19 Date Received: 10/16/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3104843 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Lab Sample ID 640162-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Toluene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 640162-001.

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

Batch: LBA-3104855 BTEX by EPA 8021B

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





Project Id:012917049Contact:Aimee ColeProject Location:Rural Eddy County

Certificate of Analysis Summary 640162

LT Environmental, Inc., Arvada, CO Project Name: Sizzler State #001H

Date Received in Lab:Wed Oct-16-19 09:52 amReport Date:21-OCT-19Project Manager:Jessica Kramer

	Lab Id:	640162-0	001	640162-0	002	640162-0	003		
Analysis Progressed	Field Id:	SS02A	.	SS03A	A	SS05A	1		
Analysis Requested	Depth:	4- ft		4- ft		4- ft			
	Matrix:	SOIL		SOIL	,	SOIL			
	Sampled:	Oct-14-19 1	13:15	Oct-14-19	13:20	Oct-14-19	13:25		
BTEX by EPA 8021B	Extracted:	Oct-18-19 (09:00	Oct-18-19	16:30	Oct-18-19	16:30		
SUB: T104704400-19-19	Analyzed:	Oct-18-19 1	12:28	** ** **	**	** ** **	**		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202		
Toluene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202		
Ethylbenzene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202		
m,p-Xylenes		< 0.00401	0.00401	< 0.00402	0.00402	< 0.00403	0.00403		
o-Xylene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202		
Total Xylenes		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202		
Total BTEX		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202		
Chloride by EPA 300	Extracted:	Oct-17-19 1	13:45	Oct-17-19	13:45	Oct-17-19	14:00		
SUB: T104704400-19-19	Analyzed:	Oct-17-19 1	18:53	Oct-17-19	18:59	Oct-17-19	19:35		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		25.3	5.00	2730	25.2	351	4.95		
TPH by SW8015 Mod	Extracted:	Oct-18-19 1	13:00	Oct-18-19	16:00	Oct-18-19	12:00		
SUB: T104704400-19-19	Analyzed:	Oct-19-19 (09:04	Oct-19-19	08:31	Oct-18-192	21:25		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9		
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9		
Total GRO-DRO		<50.0	50.0	<49.9	49.9	<49.9	49.9		
Total TPH		<50.0	50.0	<49.9	49.9	<49.9	49.9		

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

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Certificate of Analytical Results 640162

LT Environmental, Inc., Arvada, CO

Sizzler State #001H

Sample Id: SS02A Lab Sample Id: 640162-001		Matrix: Date Colle	Soil cted: 10.14.19 13.15		Date Received:10.1 Sample Depth:4 ft		2
Analytical Method: Chloride by EPA	A 300				Prep Method: E30	0P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	10.17.19 13.45		Basis: Wet	Weight	
Seq Number: 3104670		-			SUB: T104704400	-19-19	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.3	5.00	mg/kg	10.17.19 18.53		1

Analytical Method: TPH by SW801 Tech: DVM Analyst: ARM Seq Number: 3104820	5 Mod	Date Pre	p: 10.18.19	9 13.00	9 E	Prep Method: SW 6 Moisture: Basis: We SUB: T104704400	et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.19.19 09.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	10.19.19 09.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	10.19.19 09.04	U	1
Total GRO-DRO	PHC628	<50.0	50.0		mg/kg	10.19.19 09.04	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	10.19.19 09.04	U	1
Surrogate 1-Chlorooctane o-Terphenyl		Cas Number 111-85-3 84-15-1	% Recovery 102 114	Units % %	Limits 70-135 70-135	Analysis Date 10.19.19 09.04 10.19.19 09.04	Flag	



LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample I	SS02A d: 640162-001		Matrix: Date Collecte	Soil d: 10.14.19 13.15		Date Received:1 Sample Depth:4		2
Analytical M	ethod: BTEX by EPA 80	21B			I	Prep Method: S	SW5030B	
Tech:	ALJ				ç	% Moisture:		
Analyst:	ALJ		Date Prep:	10.18.19 09.00	I	Basis: V	Wet Weight	
Seq Number:	3104843				S	SUB: T1047044	00-19-19	
Parameter		Cas Number	Result F	RT.	Units	Analysis Date	e Flag	Dil

Farameter	Cas Nulliber	r Kesun	KL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.18.19 12.28	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.18.19 12.28	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.18.19 12.28	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	10.18.19 12.28	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.18.19 12.28	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.18.19 12.28	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.18.19 12.28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	90	%	70-130	10.18.19 12.28		
4-Bromofluorobenzene		460-00-4	99	%	70-130	10.18.19 12.28		



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Certificate of Analytical Results 640162

LT Environmental, Inc., Arvada, CO

Sizzler State #001H

Sample Id:SS03ALab Sample Id:640162-002	Matrix: Date Col	Soil llected: 10.14.19 13.20		Date Received:10.1 Sample Depth:4 ft		2
Analytical Method: Chloride by EPA 300]	Prep Method: E30	0P	
Tech: CHE				% Moisture:		
Analyst: CHE	Date Pre	p: 10.17.19 13.45	1	Basis: Wet	Weight	
Seq Number: 3104670		-	:	SUB: T104704400	-19-19	
Parameter Ca	s Number Result	RL	Units	Analysis Date	Flag	Dil
Chloride 1688	27-00-6 2730	25.2	mg/kg	10.17.19 18.59		5

Analytical Method: TPH by SW801: Tech: DVM Analyst: ARM Seq Number: 3104814	5 Mod	Date Pre	p: 10.18.19	9 16.00	% E	rep Method: SW 6 Moisture: 8asis: We UB: T10470440	et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.19.19 08.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.19.19 08.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.19.19 08.31	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	10.19.19 08.31	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.19.19 08.31	U	1
Surrogate 1-Chlorooctane o-Terphenyl		Cas Number 111-85-3 84-15-1	% Recovery 99 100	Units % %	Limits 70-135 70-135	Analysis Date 10.19.19 08.31 10.19.19 08.31	Flag	



LT Environmental, Inc., Arvada, CO

Sample Id: SS03A Lab Sample Id: 640162-002		Matrix: Date Collecte	Soil d: 10.14.19 13.20	_	Date Received:1 Sample Depth:4		2
Analytical Method: BTEX by EPA Tech: ALJ	8021B				Prep Method: S % Moisture:	W5030B	
Analyst: ALJ Seq Number: 3104855		Date Prep:	10.18.19 16.30	I		Vet Weight 00-19-19	
Parameter	Cas Number	Result R	RL	Units	Analysis Date	Flag	Dil

Cas Mulliber	Kesun	KL		Units	Analysis Date	riag	Dii
71-43-2	< 0.00201	0.00201		mg/kg	10.18.19 06.35	U	1
108-88-3	< 0.00201	0.00201		mg/kg	10.18.19 06.35	U	1
100-41-4	< 0.00201	0.00201		mg/kg	10.18.19 06.35	U	1
179601-23-1	< 0.00402	0.00402		mg/kg	10.18.19 06.35	U	1
95-47-6	< 0.00201	0.00201		mg/kg	10.18.19 06.35	U	1
1330-20-7	< 0.00201	0.00201		mg/kg	10.18.19 06.35	U	1
	< 0.00201	0.00201		mg/kg	10.18.19 06.35	U	1
	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	460-00-4	94	%	70-130	10.18.19 06.35		
	540-36-3	91	%	70-130	10.18.19 06.35		
-	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	71-43-2 <0.00201	71-43-2 <0.00201	71-43-2 <0.00201	71-43-2 <0.00201	71-43-2 <0.00201	$\begin{array}{c c c c c c c c c c c c c c c c c c c $



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Certificate of Analytical Results 640162

LT Environmental, Inc., Arvada, CO

Sample Id:SS05ALab Sample Id:640162-003		Matrix: Date Colle	Soil cted: 10.14.19 13.25		Date Received:10.1 Sample Depth:4 ft		2
Analytical Method: Chloride by EPA	300				Prep Method: E30	0P	
Tech: CHE					% Moisture:		
Analyst: CHE		Date Prep:	10.17.19 14.00		Basis: Wet	t Weight	
Seq Number: 3104671		-			SUB: T104704400	-19-19	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	351	4.95	mg/kg	10.17.19 19.35		1

Analytical Method: TPH by SW801	5 Mod				P	rep Method: SW	8015P	
Tech: DVM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 10.18.1	9 12.00	E	Basis: We	t Weight	
Seq Number: 3104819					S	UB: T104704400)-19-19	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.18.19 21.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.18.19 21.25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.18.19 21.25	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	10.18.19 21.25	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.18.19 21.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-135	10.18.19 21.25		
o-Terphenyl		84-15-1	106	%	70-135	10.18.19 21.25		



LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample I	SS05A d: 640162-003		Matrix: Date Collecte	Soil d: 10.14.19 13.25		Date Received: ample Depth:		2
5	ethod: BTEX by EPA 80	21B				Prep Method:	SW5030B	
Tech: Analyst:	ALJ ALJ		Date Prep:	10.18.19 16.30		6 Moisture: Basis:	Wet Weight	
Seq Number:	3104855		ľ		S	UB: T1047044	400-19-19	
Parameter		Cas Number	Result 5	er.	Units	Analysis Dat	e Flag	Dil

Parameter	Cas Number	- Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	10.18.19 06.55	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	10.18.19 06.55	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	10.18.19 06.55	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	10.18.19 06.55	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	10.18.19 06.55	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	10.18.19 06.55	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	10.18.19 06.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	70-130	10.18.19 06.55		
1,4-Difluorobenzene		540-36-3	93	%	70-130	10.18.19 06.55		



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.

Sizzler State #001H

Analytical Method: Seq Number: MB Sample Id:	Chloride by EPA 3 3104670 7688364-1-BLK	00		Matrix: nple Id:	Solid 7688364-	1-BKS		Prep Method: E300P Date Prep: 10.17.19 LCSD Sample Id: 7688364-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD RPD Limit Units Analysis Flag Date	
Chloride	<0.858	250	255	102	254	102	90-110	0 20 mg/kg 10.17.19 15:24	
Analytical Method:	Chloride by EPA 3	00						Prep Method: E300P	
Seq Number:	3104671			Matrix:				Date Prep: 10.17.19	
MB Sample Id:	7688365-1-BLK		LCS Sar	nple Id:	7688365-	1-BKS		LCSD Sample Id: 7688365-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD RPD Limit Units Analysis Flag Date	
Chloride	<0.858	250	253	101	254	102	90-110	0 20 mg/kg 10.17.19 19:23	
Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride	Chloride by EPA 3 3104670 639881-001 Parent Result 8.12	00 Spike Amount 252		Matrix: nple Id: MS %Rec 101	Soil 639881-0 MSD Result 258	01 S MSD %Rec 99	Limits 90-110	Prep Method: E300P Date Prep: 10.17.19 MSD Sample Id: 639881-001 SD %RPD RPD Limit Units Analysis Date Flag 2 20 mg/kg 10.17.19 15:47	
Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride	Chloride by EPA 3 3104670 640104-002 Parent Result 528	00 Spike Amount 250		Matrix: nple Id: MS %Rec 92	Soil 640104-0 MSD Result 734	02 S MSD %Rec 82	Limits 90-110	Prep Method: E300P Date Prep: 10.17.19 MSD Sample Id: 640104-002 SD %RPD RPD Limit Units Analysis Date Flag 3 20 mg/kg 10.17.19 17:36 X	
Analytical Method: Seq Number:	Chloride by EPA 3 3104671	00		Matrix:	Soil			Prep Method: E300P Date Prep: 10.17.19	

Analytical Method:	Chioride by EPA 50	<i>J</i> U						Pi	ep Metho	od: E30	10P	
Seq Number:	3104671			Matrix:	Soil				Date Pr	ep: 10.	17.19	
Parent Sample Id:	640096-004		MS San	nple Id:	640096-00	04 S		MS	D Sample	e Id: 640	096-004 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	138	250	386	99	383	98	90-110	1	20	mg/kg	10.17.19 21:04	

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





LT Environmental, Inc.

Sizzler State #001H

Analytical Method:	Chloride by EPA 3	00						Pı	ep Metho	d: E300)P	
Seq Number:	3104671			Matrix:	Soil				Date Pre	p: 10.1	7.19	
Parent Sample Id:	640162-003		MS Sar	nple Id:	640162-00	03 S		MS	O Sample	Id: 6401	62-003 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride	351	248	582	93	581	93	90-110	0	20	mg/kg	10.17.19 19:41	

Analytical Method: Seq Number:	3104819		lod		Matrix:					Prep Method Date Prep	p: 10.1	8015P 8.19	
MB Sample Id:	7688447-1	-BLK		LCS Sar	nple Id:	7688447-	1-BKS		LCS	SD Sample	ld: 7688	8447-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	oons (GRO)	<15.0	1000	1050	105	1050	105	70-135	0	20	mg/kg	10.18.19 12:54	
Diesel Range Organics	(DRO)	<15.0	1000	1090	109	1070	107	70-135	2	20	mg/kg	10.18.19 12:54	
Surrogate		MB %Rec	MB Flag			LCS Flag	LCSI %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane		103		1	08		108		7	0-135	%	10.18.19 12:54	
o-Terphenyl		119		1	15		112		7	0-135	%	10.18.19 12:54	

Analytical Method: Seq Number: MB Sample Id:	TPH by S 3104820 7688450-1		od	LCS Sar	Matrix: nple Id:	Solid 7688450-	1-BKS			Prep Method Date Prep SD Sample 1	b: 10.1	8015P 8.19 8450-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	1050	105	1010	101	70-135	4	20	mg/kg	10.18.19 22:29	
Diesel Range Organics	(DRO)	<15.0	1000	1070	107	1030	103	70-135	4	20	mg/kg	10.18.19 22:29	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re		_	limits	Units	Analysis Date	
1-Chlorooctane		98		1	09		104		7	0-135	%	10.18.19 22:29	
o-Terphenyl		107		1	09		110		7	0-135	%	10.18.19 22:29	

Analytical Method: Seq Number:	alytical Method:TPH by SW8015 ModNumber:3104814					Matrix: Solid				Prep Method: SW8015P Date Prep: 10.18.19				
MB Sample Id:	7688470-1	-BLK		LCS San	nple Id:	7688470-	1-BKS		LCS	SD Sample	Id: 7688	8470-1-BSD		
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag	
Gasoline Range Hydrocarb	ons (GRO)	<15.0	1000	1170	117	1180	118	70-135	1	20	mg/kg	10.18.19 21:18		
Diesel Range Organics	(DRO)	<15.0	1000	1030	103	1020	102	70-135	1	20	mg/kg	10.18.19 21:18		
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date		
1-Chlorooctane		99		1	25		124		7	70-135	%	10.18.19 21:18		
o-Terphenyl		101		1	09		109		7	70-135	%	10.18.19 21:18		

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



LT Environmental, Inc. Sizzler State #001H

Analytical Method:TPH by SSeq Number:3104819	SW8015 Mod Matrix:	Solid	Prep Method: Date Prep:	SW8 10.18		
	MB Sample Id:	7688447-1-BLK				
Parameter	MB Result		U	J nits	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0		m	ng/kg	10.18.19 12:34	
Analytical Method: TPH by S	5W8015 Mod		Prep Method:	SW8	015P	
Seq Number: 3104820	Matrix: MB Sample Id:	Solid 7688450-1-BLK	Date Prep:	10.18	8.19	
Parameter	MB Result		Ŭ	J nits	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0		m	ng/kg	10.18.19 22:08	
Analytical Method: TPH by S	W8015 Mod		Prep Method:	SW8	015P	
Analytical Method:TPH by SSeq Number:3104814	Matrix:	Solid 7688470-1-BLK	Prep Method: Date Prep:	SW8 10.18		
•	Matrix:		Date Prep:			Flag

Analytical Method: TPH by SW8015 Mod SW8015P Prep Method: Seq Number: 3104819 Matrix: Soil Date Prep: 10.18.19 MS Sample Id: 640269-001 S MSD Sample Id: 640269-001 SD Parent Sample Id: 640269-001 %RPD RPD Limit Units MS MS Parent Spike MSD MSD Limits Analysis Flag Parameter Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 70-135 10.18.19 13:57 <15.0 999 1070 107 1090 2 20 109 mg/kg 10.18.19 13:57 Diesel Range Organics (DRO) 70-135 4 20 <15.0 999 1120 112 1170 117 mg/kg MS MS MSD Limits Units Analysis MSD Surrogate %Rec Flag %Rec Flag Date 10.18.19 13:57 1-Chlorooctane 107 110 70-135 % 114 116 70-135 10.18.19 13:57 o-Terphenyl %

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

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





LT Environmental, Inc.

Sizzler State #001H

Analytical Method: T	PH by SW8015 M	lod						Prep N	lethod: SW	8015P		
Seq Number: 3	104820			Matrix:	Soil			Dat	e Prep: 10.1	18.19		
Parent Sample Id: 6	40249-001		MS San	nple Id:	640249-00	01 S		MSD Sample Id: 640249-001 SD				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD RPD	Limit Units	Analysis Date	Flag	
Gasoline Range Hydrocarbons	(GRO) 24.2	997	1100	108	1100	108	70-135	0 2) mg/kg	10.18.19 23:33		
Diesel Range Organics (DI	RO) <15.0	997	1170	117	1140	114	70-135	3 2) mg/kg	10.18.19 23:33		
Surrogate				1S Rec	MS Flag	MSD %Re			Units	Analysis Date		
1-Chlorooctane			1	14		110		70-135	%	10.18.19 23:33		
o-Terphenyl			1	19		113		70-135	%	10.18.19 23:33		

Analytical Method: Seq Number: Parent Sample Id:	TPH by S 3104814 640378-00		lod	MS San	Matrix: nple Id:)1 S			Prep Methoc Date Prep SD Sample I	p: 10.1	8015P 8.19 378-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	998	1190	119	1210	121	70-135	2	20	mg/kg	10.18.19 22:13	
Diesel Range Organics	(DRO)	<15.0	998	1140	114	1180	118	70-135	3	20	mg/kg	10.18.19 22:13	
Surrogate					1S Rec	MS Flag	MSD %Ree			Limits	Units	Analysis Date	
1-Chlorooctane				1	28		126		7	0-135	%	10.18.19 22:13	
o-Terphenyl				1	20		90		7	0-135	%	10.18.19 22:13	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3104843 7688505-1-BLK	1B	LCS Sar	Matrix: nple Id:	Solid 7688505-	1-BKS			Prep Metho Date Pro SD Sample	ep: 10.1	5030B 8.19 8505-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Lim	it Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0884	88	0.0886	89	70-130	0	35	mg/kg	10.18.19 10:28	
Toluene	< 0.00200	0.100	0.0909	91	0.0912	91	70-130	0	35	mg/kg	10.18.19 10:28	
Ethylbenzene	< 0.00200	0.100	0.0998	100	0.100	100	70-130	0	35	mg/kg	10.18.19 10:28	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.198	99	70-130	1	35	mg/kg	10.18.19 10:28	
o-Xylene	< 0.00200	0.100	0.105	105	0.107	107	70-130	2	35	mg/kg	10.18.19 10:28	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	89		ç) 0		91		-	70-130	%	10.18.19 10:28	
4-Bromofluorobenzene	99		1	18		118		-	70-130	%	10.18.19 10:28	

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 OCD: 2/21/2020 9:34:02 AM



QC Summary 640162

LT Environmental, Inc.

Sizzler State #001H

Analytical Method:	BTEX by EPA 802	1B]	Prep Metho	d: SW	5030B	
Seq Number:	3104855			Matrix:	Solid				Date Pre	p: 10.1	8.19	
MB Sample Id:	7688520-1-BLK		LCS Sar	nple Id:	7688520-	1-BKS		LC	SD Sample	Id: 768	8520-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limi	t Units	Analysis Date	Flag
Benzene	0.000730	0.100	0.0978	98	0.103	103	70-130	5	35	mg/kg	10.18.19 04:15	
Toluene	< 0.00200	0.100	0.109	109	0.105	105	70-130	4	35	mg/kg	10.18.19 04:15	
Ethylbenzene	< 0.00200	0.100	0.0997	100	0.104	104	70-130	4	35	mg/kg	10.18.19 04:15	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.204	102	70-130	3	35	mg/kg	10.18.19 04:15	
o-Xylene	< 0.00200	0.100	0.101	101	0.106	106	70-130	5	35	mg/kg	10.18.19 04:15	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene	96		8	38		93		,	70-130	%	10.18.19 04:15	
4-Bromofluorobenzene	70		Ģ	98		102		,	70-130	%	10.18.19 04:15	

Analytical Method:	BTEX by EPA 802	1B]	Prep Method	l: SWS	5030B	
Seq Number:	3104843			Matrix:	Soil				Date Prep	p: 10.1	8.19	
Parent Sample Id:	640162-001		MS San	nple Id:	640162-00	01 S		Μ	SD Sample	Id: 640	162-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.0757	76	0.0618	62	70-130	20	35	mg/kg	10.18.19 11:08	Х
Toluene	< 0.00199	0.0996	0.0778	78	0.0636	64	70-130	20	35	mg/kg	10.18.19 11:08	Х
Ethylbenzene	< 0.00199	0.0996	0.0861	86	0.0702	70	70-130	20	35	mg/kg	10.18.19 11:08	
m,p-Xylenes	< 0.00398	0.199	0.169	85	0.139	70	70-130	19	35	mg/kg	10.18.19 11:08	
o-Xylene	< 0.00199	0.0996	0.0911	91	0.0757	76	70-130	18	35	mg/kg	10.18.19 11:08	
Surrogate				AS Rec	MS Flag	MSD %Rec		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene			ç	91		91		•	70-130	%	10.18.19 11:08	
4-Bromofluorobenzene			1	19		115			70-130	%	10.18.19 11:08	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3104855 640269-001	lB	N MS Sam	Matrix: ple Id:)1 S			Prep Metho Date Pre SD Sample	p: 10.1	5030B 8.19 269-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.0716	72	0.0727	73	70-130	2	35	mg/kg	10.18.19 04:55	
Toluene	< 0.00199	0.0996	0.0797	80	0.0782	78	70-130	2	35	mg/kg	10.18.19 04:55	
Ethylbenzene	< 0.00199	0.0996	0.0846	85	0.0813	81	70-130	4	35	mg/kg	10.18.19 04:55	
m,p-Xylenes	< 0.00398	0.199	0.157	79	0.161	81	70-130	3	35	mg/kg	10.18.19 04:55	
o-Xylene	< 0.00199	0.0996	0.0819	82	0.0871	87	70-130	6	35	mg/kg	10.18.19 04:55	
Surrogate			M %I		MS Flag	MSD %Ree			Limits	Units	Analysis Date	
1,4-Difluorobenzene			10	00		92		7	70-130	%	10.18.19 04:55	
4-Bromofluorobenzene			10)7		96		7	70-130	%	10.18.19 04:55	

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

4 Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg						
r TI Sn U V Zn 31/245.1/7470 / 7471 : Hg			10/10/19 @ 952 2	10,	addun	mo prins
31/245.1/7470 /7471 : Hg		Relinquished by: (Signature)	Date/Time	(Signature)	Received by: (Signature)	(Signature)
37 TI Sn U V Zn 31/245.1/7470 /7471 : Hg	nd conditions vnd the control yotiated.	A minimum charge of \$75.0 where your 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 to control to control to the control	expenses incurred by the clie Xenco, but not analyzed. The	any responsibility for any losses or a of \$5 for each sample submitted to	pplied to each project and a charge	of Xenco. A minimum charge of \$75.0 vine user of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be Rollinguished to the client of the sector will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be
sr Ti Sn U V Zn		Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assume standard areas and and an an an and a standard area and area	pany to Xenco, its affiliates an	alid purchase order from client com	shment of samples constitutes a vi	lotice: Signature of this document and relinquis f service. Xenco will be liable only for the cost of
	K Se Ag SiO2 Na	Cr Co Cu Do Mo Mo Mo	1 AI Sb As Ba Be Sb As Ba Be Cd C	8RCRA 13PPM Texas 11 TCLP / SPLP 6010: 8RCRA	to be analyzed TC	Circle Method(s) and Metal(s) to be analyzed
				0.00		
				X N N N		
				>		
			X X X	h C101	1.174.164	
			~ .	11/	10/4/19	ASOSS
			< 1	41	-	SS03A
Sample Comments			× 7 < F	4	-	SS02A
received by 4:00pm			PH STE	Time Depth	Matrix Date Sampled	Sample Identification
TAT starts the day received by the lab, if			(e	Total Containers: 3	NX N/A Total (Complete Constront Seales: Yes
Zn Acetate+ NaOH: Zn			PA	-0.7		
NaOH: Na		\	4	- NN - 037	as No T	Received Intact:
HCL: HL			301 90	Ves No	001 100	emperature (°C):
H2S04: H2			5)	5	Temp Blank: Tes Alo	SAMPLE RECEIPT
HNO3: HN)	Due Date:	GA Quote #:	ZRP-44
MeOH: Me				Rush: 5 day	Eddy County	
Preservative Codes			Code	Routine	249	Project Number: 012917049
		ANALYSIS REOLIEST		Turn Around	Starte #001H	
ADaPT Other:	Deliverables: EDD ADal	byerse	Henv.com 4	Email: acole@		740
	Reporting:Level II CLevel III C PST/LIST CTBBB C LOSSING	NM 8	Carlsbac	City, State ZIP:	GOTAL XI WW	111101
wntieldsURRC Superfund	State of Project:	Greene Street	3104	et	1	
work Order Comments	Work Orde	Sherau	XTO EN		rest	110
Page of	VAAM	TTRELL	Itterents KYLELI.	Bill to: (if different)	Cole	(Lin
	4-5440	oenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Reach El (564) 000 com	770) 449-8800 Tampa,FL (Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000	Ph	
No: lefoluer	Work Order No: _	Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	Chain of Custod 4200 Dallas,TX (214) 902-0300 San Anton	Houston,TX (281) 240-		LABORAT
			2			

Final 1.000



Inter-Office Shipment

Page 1 of 1

IOS Number 50260

Date/Time: 10/16/19 13:45

Created by: Elizabeth Mcclellan

Please send report to: Jessica Kramer

Lab# From: Carlsbad

Lab# To: Midland

Delivery Priority: Air Bill No.: 776737745954 Address: 1089 N Canal Street

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
640162-001	S	SS02A	10/14/19 13:15	SW8021B	BTEX by EPA 8021B	10/22/19	10/28/19	JKR	BR4FBZ BZ BZME EBZ X	
640162-001	S	SS02A	10/14/19 13:15	SW8015MOD_NM	TPH by SW8015 Mod	10/22/19	10/28/19	JKR	GRO-DRO PHCC10C28 PH	
640162-001	S	SS02A	10/14/19 13:15	E300_CL	Chloride by EPA 300	10/22/19	04/11/20	JKR	CL	
640162-002	s	SS03A	10/14/19 13:20	SW8015MOD_NM	TPH by SW8015 Mod	10/22/19	10/28/19	JKR	GRO-DRO PHCC10C28 PH	
640162-002	S	SS03A	10/14/19 13:20	SW8021B	BTEX by EPA 8021B	10/22/19	10/28/19	JKR	BR4FBZ BZ BZME EBZ X	
640162-002	S	SS03A	10/14/19 13:20	E300_CL	Chloride by EPA 300	10/22/19	04/11/20	JKR	CL	
640162-003	S	SS05A	10/14/19 13:25	SW8015MOD_NM	TPH by SW8015 Mod	10/22/19	10/28/19	JKR	GRO-DRO PHCC10C28 PH	
640162-003	S	SS05A	10/14/19 13:25	SW8021B	BTEX by EPA 8021B	10/22/19	10/28/19	JKR	BR4FBZ BZ BZME EBZ X	
640162-003	S	SS05A	10/14/19 13:25	E300_CL	Chloride by EPA 300	10/22/19	04/11/20	JKR	CL	

Inter Office Shipment or Sample Comments:

Relinquished By:

Elizabeth McClellan

Date Relinquished: 10/16/2019

	*
Dessived Dry	_∩\
Received By:	U)

Amanda Levario

Date Received: <u>10/17/2019 11:19</u>

Cooler Temperature: 3.3



ABORATORIES

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland IOS #: 50260

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used : R8

Sent By:	Elizabeth McClellan	Date Sent:	10/16/2019 01:45 PM
Received By:	Amanda Levario	Date Received:	10/17/2019 11:19 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.3	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received with appropriate temperature?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	N/A	
#5 *Custody Seals Signed and dated for Containers/coolers	N/A	
#6 *IOS present?	Yes	
#7 Any missing/extra samples?	No	
#8 IOS agrees with sample label(s)/matrix?	Yes	
#9 Sample matrix/ properties agree with IOS?	Yes	
#10 Samples in proper container/ bottle?	Yes	
#11 Samples properly preserved?	Yes	
#12 Sample container(s) intact?	Yes	
#13 Sufficient sample amount for indicated test(s)?	Yes	
#14 All samples received within hold time?	Yes	

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

NonConformance:

Corrective Action Taken:

Contact:

Nonconformance Documentation

Contacted by :

Date:

Checklist reviewed by:

A	0 0	0		_
Q1	u	le		

Amanda Levario

Date: 10/17/2019

Received by OCD: 2/21/2020 9:34:02 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 10/16/2019 09:52:00 AM Temperature Measuring device used : T-NM-007 Work Order #: 640162 Sample Receipt Checklist #1 *Temperature of cooler(s)? 1.4 #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)?	Yes Subbed to Midland	
#18 Water VOC samples have zero headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan

Date: 10/16/2019

Comments

Checklist reviewed by: fession Veramer

Jessica Kramer

Date: 10/17/2019

for LT Environmental, Inc.

Project Manager: Aimee Cole

Sizzler State #001 H

012917049

24-OCT-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483) Received by OCD: 2/21/2020 9:34:02 AM



24-OCT-19

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

Reference: XENCO Report No(s): 640502 Sizzler State #001 H 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) 640502. 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. 640502 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



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Sample Cross Reference 640502

LT Environmental, Inc., Arvada, CO

Sizzler State #001 H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01A	S	10-18-19 13:50	2 ft	640502-001
SS01B	S	10-18-19 14:00	4 ft	640502-002
SS04A	S	10-18-19 14:30	2 ft	640502-003
SS04B	S	10-18-19 14:40	4 ft	640502-004



CASE NARRATIVE

Page 62 of 76

Client Name: LT Environmental, Inc. Project Name: Sizzler State #001 H

 Project ID:
 012917049

 Work Order Number(s):
 640502

Report Date: 24-OCT-19 Date Received: 10/21/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3104977 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3105170 Chloride by EPA 300

Lab Sample ID 640502-004 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: 640502-001, -002, -003, -004. The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.





Project Id:012917049Contact:Aimee ColeProject Location:Rural Eddy County

Certificate of Analysis Summary 640502

LT Environmental, Inc., Arvada, CO Project Name: Sizzler State #001 H Page 63 of 76

Date Received in Lab:Mon Oct-21-19 09:10 amReport Date:24-OCT-19Project Manager:Jessica Kramer

	Lab Id:	640502-0	001	640502-0	002	640502-0	003	640502-0	004		
An alusia Doguested	Field Id:	SS01A	`	SS01B		SS04A	4	SS04E	3		
Analysis Requested	Depth:	2- ft		4- ft		2- ft		4- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Oct-18-19	13:50	Oct-18-19	14:00	Oct-18-19	14:30	Oct-18-19	14:40		
BTEX by EPA 8021B	Extracted:	Oct-21-19	14:10	Oct-21-19	14:10	Oct-21-19	14:10	Oct-21-19	14:10		
	Analyzed:	Oct-22-19 (07:45	Oct-22-19 (08:05	Oct-22-19	08:26	Oct-22-19	08:46		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00100	0.00100	< 0.00100	0.00100	< 0.00100	0.00100	< 0.000994	0.000994		
Toluene		< 0.00100	0.00100	< 0.00100	0.00100	< 0.00100	0.00100	<0.000994			
Ethylbenzene		< 0.00100	0.00100	< 0.00100	0.00100	< 0.00100	0.00100	< 0.000994	0.000994		
m,p-Xylenes		< 0.00201	0.00201	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199		
o-Xylene		< 0.00100	0.00100	< 0.00100	0.00100	< 0.00100	0.00100	< 0.000994	0.000994		
Total Xylenes		< 0.00100	0.00100	< 0.00100	0.00100	< 0.00100	0.00100	< 0.000994	0.000994		
Total BTEX		< 0.00100	0.00100	< 0.00100	0.00100	< 0.00100	0.00100	< 0.000994	0.000994		
Chloride by EPA 300	Extracted:	Oct-21-19	20:10	Oct-21-19 2	20:10	Oct-21-19	20:10	Oct-21-19	20:10		
	Analyzed:	Oct-22-19	15:38	Oct-22-19	15:45	Oct-22-19	15:51	Oct-22-19	15:57		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		599	50.3	2000	101	540	49.9	1640	99.2		
TPH by SW8015 Mod	Extracted:	Oct-21-19	16:00	Oct-21-19	16:00	Oct-21-19	16:00	Oct-21-19	16:00		
	Analyzed:	Oct-21-19	19:29	Oct-21-19	19:49	Oct-21-19	19:49	Oct-21-19	20:09		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)	·	<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.3	50.3		
Diesel Range Organics (DRO)		<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.3	50.3		
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.3	50.3		
Total GRO-DRO		<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.3	50.3		
Total TPH		<50.2	50.2	<50.2	50.2	<50.3	50.3	<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 kramer

Jessica Kramer Project Assistant

Page 5 of 18



LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample Id	SS01A d: 640502-001		Matrix: Date Colle	Soil cted: 10.18.19 13.50		Date Received:10.2 Sample Depth: 2 ft		0
Analytical Me Tech: Analyst: Seq Number:	ethod: Chloride by E MAB MAB 3105170	PA 300	Date Prep:	10.21.19 20.10		Prep Method: E30 % Moisture: Basis: Wet	00P t Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	599	50.3	mg/kg	10.22.19 15.38		5

Analytical Method: TPH by SW801:	5 Mod				Р	rep Method: SV	V8015P	
Tech: DTH					%	6 Moisture:		
Analyst: DTH		Date Pre	p: 10.21.	19 16.00	В	Basis: We	et Weight	
Seq Number: 3104978								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	10.21.19 19.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	10.21.19 19.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	10.21.19 19.29	U	1
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	10.21.19 19.29	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	10.21.19 19.29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	77	%	70-135	10.21.19 19.29		
o-Terphenyl		84-15-1	80	%	70-135	10.21.19 19.29		



LT Environmental, Inc., Arvada, CO

Sizzler State #001 H

Sample Id: SS01A	Matrix: Soil	Date Received:10.21.19 09.10
Lab Sample Id: 640502-001	Date Collected: 10.18.19 13.50	Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 10.21.19 14.10	Basis: Wet Weight
Seq Number: 3104977		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.22.19 07.45	U	1
Toluene	108-88-3	< 0.00100	0.00100		mg/kg	10.22.19 07.45	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	10.22.19 07.45	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	10.22.19 07.45	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	10.22.19 07.45	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100		mg/kg	10.22.19 07.45	U	1
Total BTEX		< 0.00100	0.00100		mg/kg	10.22.19 07.45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	10.22.19 07.45		
4-Bromofluorobenzene		460-00-4	109	%	70-130	10.22.19 07.45		



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Certificate of Analytical Results 640502

LT Environmental, Inc., Arvada, CO

Sizzler State #001 H

Sample Id: SS01B		Matrix:	Soil		Date Received:10.2	21.19 09.1	C
Lab Sample Id: 640502-002		Date Collec	cted: 10.18.19 14.00		Sample Depth: 4 ft		
Analytical Method: Chloride by EP	A 300				Prep Method: E30	00P	
Tech: MAB					% Moisture:		
Analyst: MAB		Date Prep:	10.21.19 20.10		Basis: We	t Weight	
Seq Number: 3105170							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2000	101	mg/kg	10.22.19 15.45		10
Analytical Method: TPH by SW801	15 Mod				Prep Method: SW	8015P	
Tech: DTH					% Moisture:		
Analyst: DTH		Date Prep:	10.21.19 16.00		Basis: We	t Weight	
Seq Number: 3104978							
	Cas Number	Result	RL	T	Amelanta Dete	Ele -	Dil
Parameter	Cas Number	Result	KL	Units	Analysis Date	Flag	DII

o-Terphenyl		84-15-1	87	%	70-135	10.21.19 19.49			
1-Chlorooctane		111-85-3	85	%	70-135	10.21.19 19.49			
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
Total TPH	PHC635	<50.2	50.2		mg/kg	10.21.19 19.49	U	1	
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	10.21.19 19.49	U	1	
Motor Oil Range Hydrocarbons (MI	RO) PHCG2835	<50.2	50.2		mg/kg	10.21.19 19.49	U	1	
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	10.21.19 19.49	U	1	
Gasonne Kange Hydrocarbons ((GKO) PHC010	<30.2	30.2		mg/kg	10.21.19 19.49	U	1	



LT Environmental, Inc., Arvada, CO

Sizzler State #001 H

Sample Id: SS01B	Matrix: Soil	Date Received:10.21.19 09.10
Lab Sample Id: 640502-002	Date Collected: 10.18.19 14.00	Sample Depth: 4 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 10.21.19 14.10	Basis: Wet Weight
Seq Number: 3104977		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.22.19 08.05	U	1
Toluene	108-88-3	< 0.00100	0.00100		mg/kg	10.22.19 08.05	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	10.22.19 08.05	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	10.22.19 08.05	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	10.22.19 08.05	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100		mg/kg	10.22.19 08.05	U	1
Total BTEX		< 0.00100	0.00100		mg/kg	10.22.19 08.05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	108	%	70-130	10.22.19 08.05		
1,4-Difluorobenzene		540-36-3	101	%	70-130	10.22.19 08.05		



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Certificate of Analytical Results 640502

LT Environmental, Inc., Arvada, CO

Sizzler State #001 H

Sample Id: Lab Sample	SS04A Id: 640502-003		Matrix: Date Collec	Soil ted: 10.18.19 14.30		Date Received:10 Sample Depth: 2 t		0
Analytical M Tech: Analyst: Seq Number	fethod: Chloride by E MAB MAB : 3105170	PA 300	Date Prep:	10.21.19 20.10		Prep Method: E3 % Moisture: Basis: W	300P et Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	540	49.9	mg/kg	10.22.19 15.51		5
Analytical M Tech:	fethod: TPH by SW80 DTH)15 Mod				Prep Method: SV % Moisture:	W8015P	
Analyst:	DTH		Date Prep:	10.21.19 16.00			et Weight	

Seq Number: 3104978		2	I ·				0	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	10.21.19 19.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3		mg/kg	10.21.19 19.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3		mg/kg	10.21.19 19.49	U	1
Total GRO-DRO	PHC628	<50.3	50.3		mg/kg	10.21.19 19.49	U	1
Total TPH	PHC635	<50.3	50.3		mg/kg	10.21.19 19.49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	77	%	70-135	10.21.19 19.49		
o-Terphenyl		84-15-1	80	%	70-135	10.21.19 19.49		



LT Environmental, Inc., Arvada, CO

Sizzler State #001 H

Sample Id: SS04A	Matrix: Soil	Date Received:10.21.19 09.10			
Lab Sample Id: 640502-003	Date Collected: 10.18.19 14.30	Sample Depth: 2 ft			
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B			
Tech: MAB		% Moisture:			
Analyst: MAB	Date Prep: 10.21.19 14.10	Basis: Wet Weight			
Seq Number: 3104977					

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.22.19 08.26	U	1
Toluene	108-88-3	< 0.00100	0.00100		mg/kg	10.22.19 08.26	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	10.22.19 08.26	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	10.22.19 08.26	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	10.22.19 08.26	U	1
Total Xylenes	1330-20-7	< 0.00100	0.00100		mg/kg	10.22.19 08.26	U	1
Total BTEX		< 0.00100	0.00100		mg/kg	10.22.19 08.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	10.22.19 08.26		
4-Bromofluorobenzene		460-00-4	108	%	70-130	10.22.19 08.26		



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Certificate of Analytical Results 640502

LT Environmental, Inc., Arvada, CO

Sizzler State #001 H

Sample Id:	SS04B		Matrix:	Soil	Ι	Date Received:10.2	21.19 09.10)
Lab Sample Id	l: 640502-004		Date Collected: 10.18.19 14.40 Sample Depth: 4 ft					
Analytical Me	ethod: Chloride by EPA	A 300			I	Prep Method: E30)0P	
Tech:	MAB				ç	% Moisture:		
Analyst:	MAB		Date Prep:	10.21.19 20.10	I	Basis: We	t Weight	
Seq Number:	3105170							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	1640	99.2	mg/kg	10.22.19 15.57		10

Analytical Method: TPH by SW801	5 Mod				Р	rep Method: SW	/8015P	
Tech: DTH					%	6 Moisture:		
Analyst: DTH		Date Pre	p: 10.21	.19 16.00	В	asis: We	et Weight	
Seq Number: 3104978								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	10.21.19 20.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3		mg/kg	10.21.19 20.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3		mg/kg	10.21.19 20.09	U	1
Total GRO-DRO	PHC628	<50.3	50.3		mg/kg	10.21.19 20.09	U	1
Total TPH	PHC635	<50.3	50.3		mg/kg	10.21.19 20.09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	74	%	70-135	10.21.19 20.09		
o-Terphenyl		84-15-1	76	%	70-135	10.21.19 20.09		



LT Environmental, Inc., Arvada, CO

Sizzler State #001 H

Sample Id: SS04B	Matrix: Soil	Date Received:10.21.19 09.10			
Lab Sample Id: 640502-004	Date Collected: 10.18.19 14.40	Sample Depth: 4 ft			
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B			
Tech: MAB		% Moisture:			
Analyst: MAB	Date Prep: 10.21.19 14.10	Basis: Wet Weight			
Seq Number: 3104977					

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000994	0.000994		mg/kg	10.22.19 08.46	U	1
Toluene	108-88-3	< 0.000994	0.000994		mg/kg	10.22.19 08.46	U	1
Ethylbenzene	100-41-4	< 0.000994	0.000994		mg/kg	10.22.19 08.46	U	1
m,p-Xylenes	179601-23-1	< 0.00199	0.00199		mg/kg	10.22.19 08.46	U	1
o-Xylene	95-47-6	< 0.000994	0.000994		mg/kg	10.22.19 08.46	U	1
Total Xylenes	1330-20-7	< 0.000994	0.000994		mg/kg	10.22.19 08.46	U	1
Total BTEX		< 0.000994	0.000994		mg/kg	10.22.19 08.46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	111	%	70-130	10.22.19 08.46		
1,4-Difluorobenzene		540-36-3	105	%	70-130	10.22.19 08.46		

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.

Sizzler State #001 H

Analytical Method: Seq Number:	3105170	300		Matrix:					e Prep: 10.2	21.19	
MB Sample Id:	7688575-1-BLK		LCS Sar	nple Id:	7688575-	I-BKS		LCSD Sai	nple Id: 768	8575-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD RPD	Limit Units	Analysis Date	Flag
Chloride	<10.0	250	268	107	269	108	90-110	0 20	mg/kg	10.22.19 14:04	
Analytical Method:	•	300						Prep M	lethod: E30	OP	
Seq Number:	3105170			Matrix:					1	21.19	
Parent Sample Id:	640497-001		MS Sar	nple Id:	640497-0	01 S		MSD Sar	nple Id: 640	497-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD RPD	Limit Units	Analysis Date	Flag
Chloride	56.4	200	290	117	292	118	90-110	1 20	mg/kg	10.22.19 14:22	Х
Analytical Method:	Chloride by EPA 3	300						Prep M	ethod: E30	OP	
Seq Number:	3105170			Matrix:	Solid			Date	e Prep: 10.2	21.19	
Parent Sample Id:	640502-004		MS Sar	nple Id:	640502-0	04 S		MSD Sar	nple Id: 640	502-004 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD RPD	Limit Units	Analysis Date	Flag
Chloride	1640	1980	4150	127	4210	129	90-110	1 20	mg/kg	10.22.19 16:03	Х
Analytical Method:	TPH by SW8015 M	/lod						Prep M	ethod: SW	8015P	
Seq Number:	3104978			Matrix:	Solid			Date	e Prep: 10.2	21.19	
MB Sample Id:	7688582-1-BLK		LCS Sar	nple Id:	7688582-	1-BKS		LCSD Sat	nple Id: 768	8582-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD RPD	Limit Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO) <50.0	1000	888	89	913	91	70-135	3 35	mg/kg	10.21.19 18:30	
Diesel Range Organics (DRO) <50.0	1000	816	82	825	83	70-135	1 35	mg/kg	10.21.19 18:30	
S	MB	MB	L	CS	LCS	LCSI	D LCS	SD Limits	Units	Analysis	

Surrogate	MB MB %Rec Flag	LCS LCS %Rec Flag	LCSD LCSD %Rec Flag	Limits	Units	Analysis Date
1-Chlorooctane	90	118	109	70-135	%	10.21.19 18:30
o-Terphenyl	94	112	106	70-135	%	10.21.19 18:30

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW80)15P	
Seq Number:	3104978	Matrix:	Solid	Date Prep:	10.21	.19	
		MB Sample Id:	7688582-1-BLK				
Parameter		MB Result		τ	J nits	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)	<50.0		m	ng/kg	10.21.19 18:30	

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

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Final 1.000

Received by OCD: 2/21/2020 9:34:02 AM



QC Summary 640502

LT Environmental, Inc.

Sizzler State #001 H

Analytical Method: TPH	oy SW8015 Mod						Prep Metho	od: SW	8015P	
Seq Number: 31049	78		Matrix:	Soil			Date Pre	ep: 10.2	21.19	
Parent Sample Id: 64049	8-002	MS	Sample Id:	640498-0	02 S		MSD Sample	Id: 6404	498-002 SD	
Parameter		Spike M nount Res	IS MS 1lt %Rec	MSD Result	MSD %Rec	Limits	%RPD RPD Limi	t Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRC) <50.6	1010 8	852 84	866	86	70-135	2 35	mg/kg	10.21.19 19:09	
Diesel Range Organics (DRO)	<50.6	1010 7	74 77	799	79	70-135	3 35	mg/kg	10.21.19 19:09	
Surrogate			MS %Rec	MS Flag	MSD %Re			Units	Analysis Date	
1-Chlorooctane			84		100		70-135	%	10.21.19 19:09	
o-Terphenyl			81		86		70-135	%	10.21.19 19:09	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3104977 7688601-1-BLK	1B	LCS San	Matrix: nple Id:	Solid 7688601-	1-BKS			Prep Method Date Prej SD Sample	p: 10.2	5030B 11.19 8601-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00100	0.100	0.0975	98	0.0993	99	70-130	2	35	mg/kg	10.21.19 23:48	
Toluene	< 0.00100	0.100	0.0935	94	0.0949	95	70-130	1	35	mg/kg	10.21.19 23:48	
Ethylbenzene	< 0.00100	0.100	0.0955	96	0.0960	96	71-129	1	35	mg/kg	10.21.19 23:48	
m,p-Xylenes	< 0.00200	0.200	0.190	95	0.191	96	70-135	1	35	mg/kg	10.21.19 23:48	
o-Xylene	< 0.00100	0.100	0.0959	96	0.0981	98	71-133	2	35	mg/kg	10.21.19 23:48	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	102		1	04		105			70-130	%	10.21.19 23:48	
4-Bromofluorobenzene	106		1	06		110			70-130	%	10.21.19 23:48	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3104977 640495-008	1B		Matrix: ple Id:	Soil 640495-00	08 S			Prep Methoo Date Prej SD Sample	p: 10.2	5030B 1.19 495-008 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	D RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00100	0.100	0.0799	80	0.0751	75	70-130	6	35	mg/kg	10.22.19 00:29	
Toluene	< 0.00100	0.100	0.0754	75	0.0705	71	70-130	7	35	mg/kg	10.22.19 00:29	
Ethylbenzene	< 0.00100	0.100	0.0783	78	0.0744	74	71-129	5	35	mg/kg	10.22.19 00:29	
m,p-Xylenes	< 0.00200	0.200	0.155	78	0.147	74	70-135	5	35	mg/kg	10.22.19 00:29	
o-Xylene	< 0.00100	0.100	0.0786	79	0.0742	74	71-133	6	35	mg/kg	10.22.19 00:29	
Surrogate				IS Rec	MS Flag	MSD %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene			10	04		102			70-130	%	10.22.19 00:29	
4-Bromofluorobenzene			1	10		106			70-130	%	10.22.19 00:29	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (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

Final 1.000

Received by OCD: 2/21/2020 9:34:02 AM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 10/21/2019 09:10:00 AM Temperature Measuring device used : T-NM-007 Work Order #: 640502 Comments Sample Receipt Checklist #1 *Temperature of cooler(s)? 2.4 #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

#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
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

#9 Chain of Custody signed when relinquished/ received?

#10 Chain of Custody agrees with sample labels/matrix?

Checklist completed by: Elizabeth McClellan Checklist reviewed by: Jession WAMER

Date: 10/21/2019

Yes

Yes

Jessica Kramer

Date: 10/22/2019