LT Environmental, Inc.
3300 North A Street, Building 1, #103
Midland, Texas 79705
T 432.704.5178

March 16, 2020

Mr. Mike Bratcher
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 8821

RE: Containment Liner Inspection and Subsequent Delineation
C 17 State #001H
Incident ID: NRM2003533617
Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE) is pleased to present the following letter report to WPX Energy Production, LLC (WPX) summarizing the response efforts and secondary containment liner inspection associated with a produced water release at the C 17 STATE #001H well pad (Site) in Unit A, Section 17, Township 23 South, Range 27 East, in Eddy County, New Mexico (Figure 1). On December 19, 2019, there was a failure in the produced water dump line causing the release of approximately 35 barrels (bbls) of produced water in the lined steel containment at the site. All fluids were contained within the lined secondary containment, recovered immediately, and returned to production. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on December 30, 2019, and was subsequently assigned Incident ID NRM2003533617 (Attachment 1).

INITIAL LINER INSPECTION

On January 14, 2020, LTE personnel competent in the inspection of on-site equipment and facilities visited the Site to visually inspect the liner. During the inspection, seven tears approximately 1 inch in size were noted in the northeast and southwest areas of the secondary containment liner. Based on this observation, additional assessment and soil sampling activities were warranted. Repair of the liner was arranged after access and sampling of the underlying soil was complete. Photographs taken during the liner inspection and follow-up liner repair are included as Attachment 2.

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 greater than 100 feet below ground surface (bgs) based on the nearest water well data. The nearest permitted water well with depth to water data is C 04044 Pod 1, located approximately 4,195 feet northeast of the Site. The water well has a depth to groundwater of 150 feet and a total depth of 290 feet bgs. Ground surface elevation at the water well location is 3,148 feet above mean sea level (AMSL), which is approximately 12 feet lower in elevation than the Site. The closest continuously flowing water or significant watercourse to the Site is a drainage located approximately

1,045 feet east 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. The Site is greater than 300 feet from a 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. Based on these criteria, the following NMOCD Table 1 Closure Criteria apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX); 1,000 mg/kg for the sum of total petroleum hydrocarbons (TPH) – gasoline range organics (GRO) and TPH – diesel range organics (DRO); 2,500 mg/kg TPH; and 20,000 mg/kg chloride.

SOIL SAMPLING

On January 30, 2020, LTE was onsite to conduct soil sampling associated with the observed tears in the tank battery secondary containment liner. Soil samples were collected beneath each of the observed tares from surface level to 0.3 feet bgs at each location (SS01 through SS07). Soil samples were field screened for volatile aromatic hydrocarbons using a photo-ionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The soil samples were placed directly into a pre-cleaned glass jar, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Midland, Texas, for analysis of BTEX following United State Environmental Protection Agency (USEPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-motor oil range organics (MRO) following USEPA Method 8015M/D; and chloride following USEPA Method 300.0. Soil sample locations are depicted on the attached Figure 2.

ANALYTICAL RESULTS

Laboratory analytical results of soil samples indicated that BTEX, TPH, and chloride concentrations were either below the laboratory detection limit or compliant with the NMOCD Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

WPX repaired the observed tears as depicted in the attached Photographic Log (Attachment 2). LTE recommends that WPX request no further action for Incident ID NRM2003533617. An updated NMOCD Form C-141 is included as Attachment 1.

If you have any questions or comments, please do not hesitate to contact Chris McKisson at (970) 285-9985 or cmckisson@ltenv.com.

Sincerely,
LT ENVIRONMENTAL, INC.

Chris McKisson
Project Environmental Scientist

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

Attachments:

Figure 1	Site Location Map
Figure 2	Site Map
Table 1	Soil Analytical Results
Attachment 1	Initial/Final NMOCD Form C-141
Attachment 2	Photographic Log
Attachment 3	Laboratory Analytical Reports

FIGURES

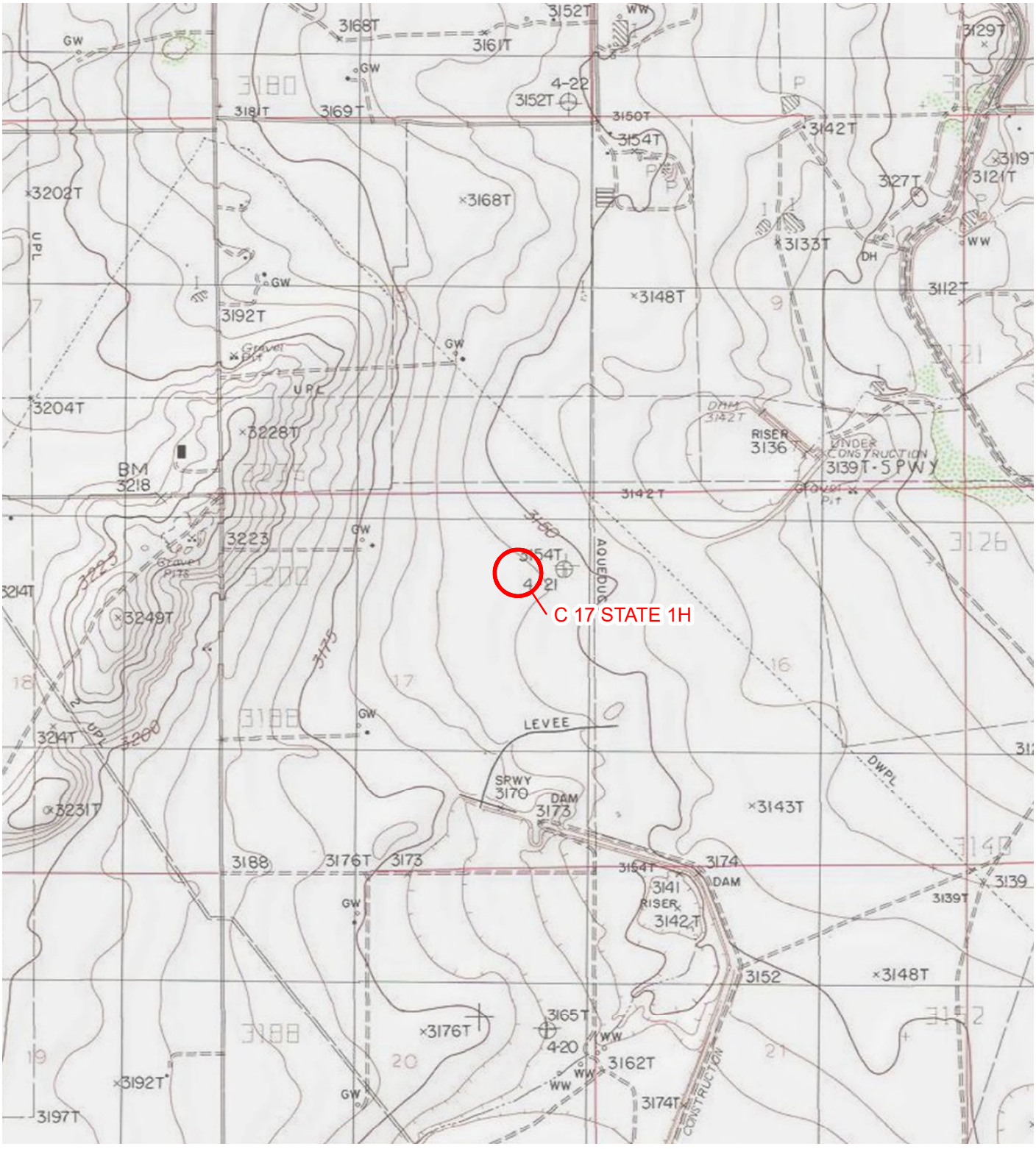


IMAGE COURTESY OF ESRI/USGS

LEGEND

SITE LOCATION

0 2,000 4,000

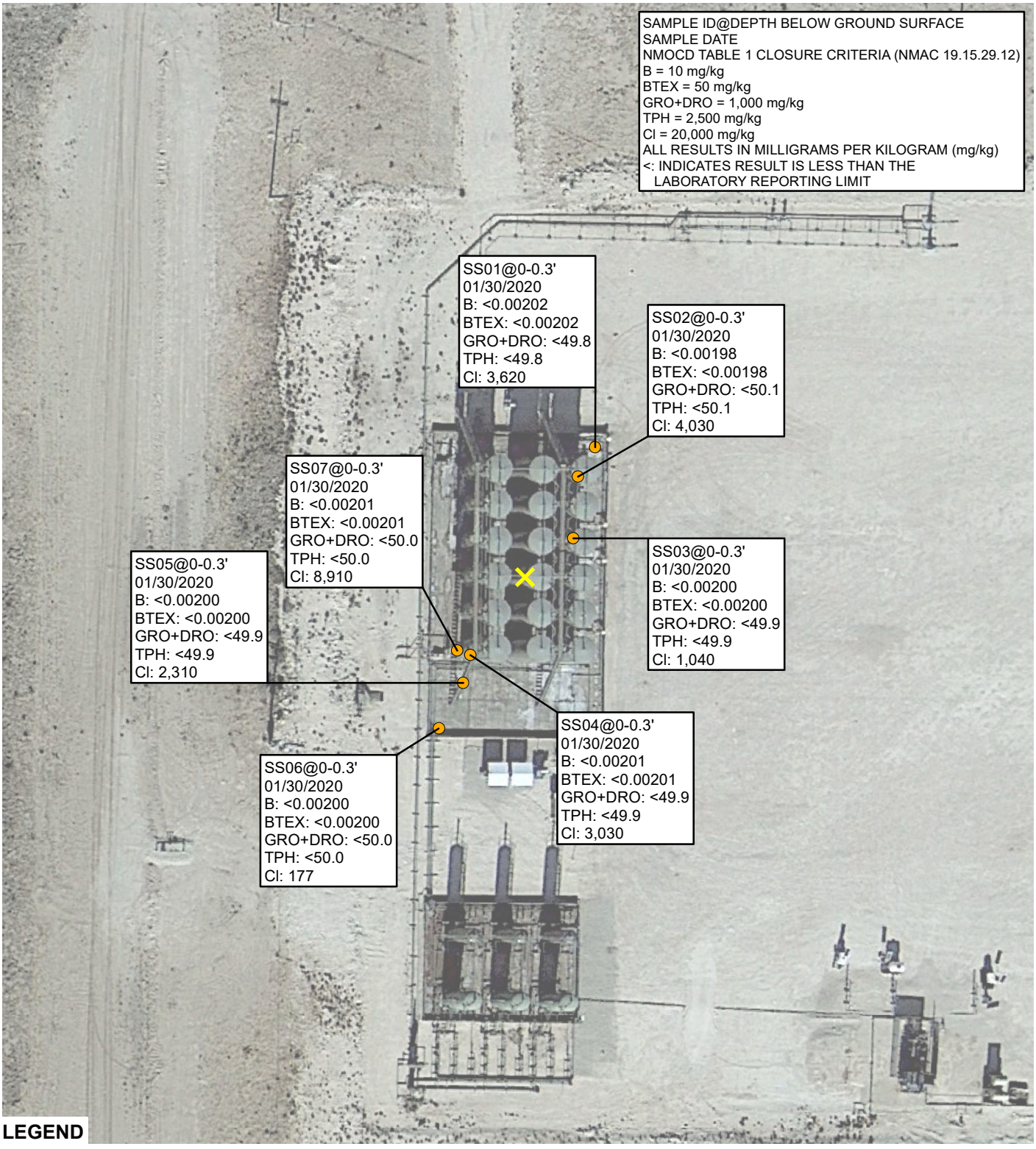
Feet

N

NEW MEXICO

FIGURE 1
SITE LOCATION MAP
C 17 STATE 1H
UNIT A SEC 17 T23S R27E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC.

P:\WPX\GIS\MXD\034820004_C 17 STATE 1H\034820004_FIG01_SL_2020.mxd



LEGEND

IMAGE COURTESY OF GOOGLE EARTH 2019

RELEASE LOCATION

SOIL SAMPLE

0 60 120

Feet

N

B: BENZENE
BTEX: TOTAL BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES
GRO – GASOLINE RANGE ORGANICS
DRO – DIESEL RANGE ORGANICS
TPH – TOTAL PETROLEUM HYDROCARBONS
Cl - CHLORIDE
NMAC – NEW MEXICO ADMINISTRATIVE CODE
NMOCD – NEW MEXICO OIL CONSERVATION DIVISION

FIGURE 2
SITE MAP
C 17 STATE 1H
UNIT A SEC 17 T23S R27E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC.

P:\WPX\GIS\MXD\034820004_C 17 STATE 1H\034820004_FIG02_SITE_2020.mxd

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS

C 17 STATE #001H
NMOCD INCIDENT ID: NRM2003533617
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, 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)	MRO (mg/kg)	Sum of GRO + DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS01	0 - 0.3	01/30/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	3,620
SS02	0 - 0.3	01/30/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	4,030
SS03	0 - 0.3	01/30/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1,040
SS04	0 - 0.3	01/30/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	3,030
SS05	0 - 0.3	01/30/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	2,310
SS06	0 - 0.3	01/30/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	177
SS07	0 - 0.3	01/30/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	8,910
NMOCD Table 1 Closure Criteria			**10**	NE	NE	NE	**50**	NE	NE	NE	**1,000**	**2,500**	**20,000**

Notes:

bgs - below ground surface
BTEX - benzene, toluene, ethylbenzene, and total xylenes
mg/kg - milligrams per kilogram
NE - not established
NMOCD - New Mexico Oil Conservation Division
DRO - diesel range organics
GRO - gasoline range organics
MRO - motor oil range organics
TPH - total petroleum hydrocarbons
< - indicates result is below laboratory reporting limits
Bold- indicates result exceeds the applicable regulatory standard
* - indicates sample was collected in area to be reclaimed after remediation is complete; closure criteria for chloride concentrationin the top 4 feet of soil is 600 mg/kg
Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018 NMAC -New Mexico Administrative Code

ATTACHMENT 1: FORM C-141

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

Incident ID	NRM2003533617
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: james.raley@wpxenergy.com	Incident # *(assigned by OCD)*
Contact mailing address: 5315 Buena Vista Dr., Carlsbad, NM 88220	

Location of Release Source

Latitude 32.308862 Longitude -104.205363
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: C 17 STATE #001H	Site Type: Production Facility
Date Release Discovered: 12/19/2019	API# *(if applicable): 30-015-44534*

Unit Letter	Section	Township	Range	County
A	17	23S	27E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private

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) 35	Volume Recovered (bbls) 35
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Failure of produced water dump line resulted in the release of approx. 35 bbls of produced water inside lined secondary treater containment. Volume was estimated by recovered volume as containment is fully lined. Liner to be inspected for closure.

State of New Mexico
Oil Conservation Division

Incident ID	NRM2003533617
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25bbls

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
District II office notified via email 12/19/2019 at 3:01 PM including Victoria Venegas, Robert Hamlet and Mike Bratcher.

Initial Response

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

☒ The source of the 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 not been undertaken, explain why:

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: Jim Raley Title: Environmental Specialist

Signature: Jim Raley Date: 12/30/2019

email: james.raley@wpxenergy.com Telephone: 575-689-7597

OCD Only

Received by: Ramona Marcus Date: 2/4/2020

State of New Mexico
Oil Conservation Division

Incident ID	NRM2003533617
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	NRM2003533617
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: **Jim Raley** Title: **Environmental Specialist**

Signature: Date: **3/18/2020**

email: **James.Raley@wpxenergy.com** Telephone: **575-689-7597**

OCD Only

Received by: Cristina Eads Date: 03/17/2020

State of New Mexico
Oil Conservation Division

Incident ID	NRM2003533617
District RP	
Facility ID	
Application ID	

Closure

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

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 ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: **Jim Raley** Title: **Environmental Specialist**

Signature: Date: **3/18/2020**

email: **James.Raley@wpxenergy.com** Telephone: **575-689-7597**

OCD Only

Received by: Cristina Eads Date: 03/17/2020

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Denied Date: 04/08/2020

Printed Name: Cristina Eads Title: Environmental Specialist

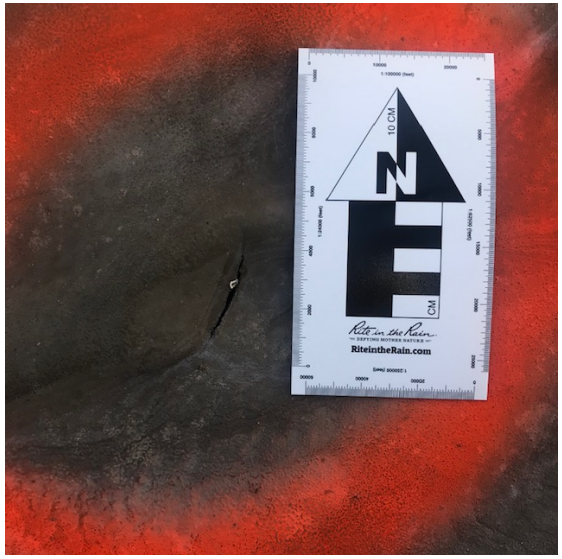
ATTACHMENT 2: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Photograph 1: View of tare in liner.

Photograph 2: View of tare in liner.

Photograph 3: View of tare in liner.



Photograph 4: View of tare in liner.

C 17 State #001H

Photographs Taken: January 14, 2020

PHOTOGRAPHIC LOG

Photograph 5: View east of liner repair.

Photograph 6: View west of liner repair.

Photograph 7: View southwest of liner repair.

Photograph 4: View north of liner repair.

ATTACHMENT 3: LABORATORY ANALYTICAL RESULTS

Analytical Report 650903

for

LT Environmental, Inc.

Project Manager: Chris McKisson

C 17 State 1H

034820004

31-JAN-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

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

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

31-JAN-20

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

Reference: XENCO Report No(s): **650903**
C 17 State 1H
Project Address: Rural Eddy County

Chris McKisson:

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) 650903. 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. 650903 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica 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 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	01-30-20 09:55	0 - 0.3 ft	650903-001
SS02	S	01-30-20 10:15	0 - 0.3 ft	650903-002
SS03	S	01-30-20 10:35	0 - 0.3 ft	650903-003
SS04	S	01-30-20 11:00	0 - 0.3 ft	650903-004
SS05	S	01-30-20 11:20	0 - 0.3 ft	650903-005
SS06	S	01-30-20 11:40	0 - 0.3 ft	650903-006
SS07	S	01-30-20 11:55	0 - 0.3 ft	650903-007

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: C 17 State 1H

Project ID: *034820004*
Work Order Number(s): *650903*

Report Date: *31-JAN-20*
Date Received: *01/30/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3115056 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3115060 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3115096 TPH by SW8015 Mod
Surrogate 1-Chlorooctane, Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 650903-001,650903-003.

Certificate of Analysis Summary 650903

LT Environmental, Inc., Arvada, CO

Project Name: C 17 State 1H

Project Id: 034820004
Contact: Chris McKisson
Project Location: Rural Eddy County

Date Received in Lab: Thu Jan-30-20 01:58 pm
Report Date: 31-JAN-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	650903-001		650903-002		650903-003		650903-004		650903-005		650903-006	
	Field Id:	SS01		SS02		SS03		SS04		SS05		SS06	
	Depth:	0-0.3 ft		0-0.3 ft		0-0.3 ft		0-0.3 ft		0-0.3 ft		0-0.3 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-30-20 09:55		Jan-30-20 10:15		Jan-30-20 10:35		Jan-30-20 11:00		Jan-30-20 11:20		Jan-30-20 11:40	
BTEX by EPA 8021B	***Extracted:***	Jan-30-20 15:00		Jan-30-20 15:00		Jan-30-20 15:00		Jan-30-20 16:31		Jan-30-20 16:31		Jan-30-20 16:31	
	Analyzed:	Jan-30-20 21:02		Jan-30-20 21:23		Jan-30-20 21:43		Jan-31-20 00:47		Jan-31-20 01:07		Jan-31-20 01:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00403	0.00403	<0.00396	0.00396	<0.00400	0.00400	<0.00402	0.00402	<0.00401	0.00401	<0.00399	0.00399
o-Xylene		<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Xylenes, Total		<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Jan-30-20 16:24		Jan-30-20 16:24		Jan-30-20 16:24		Jan-30-20 16:24		Jan-30-20 16:24		Jan-30-20 16:24	
	Analyzed:	Jan-30-20 19:57		Jan-30-20 20:03		Jan-30-20 20:09		Jan-30-20 20:15		Jan-30-20 20:33		Jan-30-20 20:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3620	50.4	4030	50.1	1040	50.3	3030	50.3	2310	49.7	177	9.98
TPH by SW8015 Mod	***Extracted:***	Jan-30-20 16:50		Jan-30-20 16:50		Jan-30-20 16:50		Jan-30-20 17:30		Jan-30-20 17:30		Jan-30-20 17:30	
	Analyzed:	Jan-31-20 02:41		Jan-31-20 02:41		Jan-31-20 03:00		Jan-31-20 03:59		Jan-31-20 04:19		Jan-31-20 04:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)		<49.8	49.8	<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.9	49.9	<50.0	50.0
Total GRO-DRO		<49.8	49.8	<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.9	49.9	<50.0	50.0
Total TPH		<49.8	49.8	<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.9	49.9	<50.0	50.0

Version: 1.%

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 650903

LT Environmental, Inc., Arvada, CO

Project Name: C 17 State 1H

Project Id: 034820004
Contact: Chris McKisson
Project Location: Rural Eddy County

Date Received in Lab: Thu Jan-30-20 01:58 pm
Report Date: 31-JAN-20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	650903-007					
	Field Id:	SS07					
	Depth:	0-0.3 ft					
	Matrix:	SOIL					
	Sampled:	Jan-30-20 11:55					
BTEX by EPA 8021B	***Extracted:***	Jan-30-20 16:31					
	Analyzed:	Jan-31-20 01:48					
	Units/RL:	mg/kg	RL				
Benzene		<0.00201	0.00201				
Toluene		<0.00201	0.00201				
Ethylbenzene		<0.00201	0.00201				
m,p-Xylenes		<0.00402	0.00402				
o-Xylene		<0.00201	0.00201				
Xylenes, Total		<0.00201	0.00201				
Total BTEX		<0.00201	0.00201				
Chloride by EPA 300	***Extracted:***	Jan-30-20 16:24					
	Analyzed:	Jan-30-20 20:45					
	Units/RL:	mg/kg	RL				
Chloride		8910	50.4				
TPH by SW8015 Mod	***Extracted:***	Jan-30-20 17:30					
	Analyzed:	Jan-31-20 04:38					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0				
Diesel Range Organics (DRO)		<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0				
Total GRO-DRO		<50.0	50.0				
Total TPH		<50.0	50.0				

Version: 1.%

Jessica Kramer
Project Assistant

Certificate of Analytical Results 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	01.30.20 13.58
Lab Sample Id:	650903-001	Date Collected:	01.30.20 09.55	Sample Depth:	0 - 0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.20 16.24	Basis:	Wet Weight
Seq Number:	3115083				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3620**	50.4	mg/kg	01.30.20 19.57		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.30.20 16.50	Basis:	Wet Weight
Seq Number:	3115096				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.31.20 02.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.31.20 02.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.31.20 02.41	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	01.31.20 02.41	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.31.20 02.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	136	%	70-135	01.31.20 02.41	**
o-Terphenyl	84-15-1	137	%	70-135	01.31.20 02.41	**

Certificate of Analytical Results 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	01.30.20 13.58
Lab Sample Id:	650903-001	Date Collected:	01.30.20 09.55	Sample Depth:	0 - 0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.20 15.00	Basis:	Wet Weight
Seq Number:	3115056				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.30.20 21.02	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.30.20 21.02	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.30.20 21.02	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.30.20 21.02	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.30.20 21.02	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	01.30.20 21.02	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.30.20 21.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	01.30.20 21.02	
4-Bromofluorobenzene	460-00-4	97	%	70-130	01.30.20 21.02	

Certificate of Analytical Results 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	01.30.20 13.58
Lab Sample Id:	650903-002	Date Collected:	01.30.20 10.15	Sample Depth:	0 - 0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.20 16.24	Basis:	Wet Weight
Seq Number:	3115083				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4030**	50.1	mg/kg	01.30.20 20.03		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.30.20 16.50	Basis:	Wet Weight
Seq Number:	3115096				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.31.20 02.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.31.20 02.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.31.20 02.41	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	01.31.20 02.41	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.31.20 02.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	01.31.20 02.41	
o-Terphenyl	84-15-1	108	%	70-135	01.31.20 02.41	

Certificate of Analytical Results 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	01.30.20 13.58
Lab Sample Id:	650903-002	Date Collected:	01.30.20 10.15	Sample Depth:	0 - 0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.20 15.00	Basis:	Wet Weight
Seq Number:	3115056				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.30.20 21.23	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.30.20 21.23	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.30.20 21.23	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	01.30.20 21.23	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.30.20 21.23	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	01.30.20 21.23	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.30.20 21.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	01.30.20 21.23	
1,4-Difluorobenzene	540-36-3	109	%	70-130	01.30.20 21.23	

Certificate of Analytical Results 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	01.30.20 13.58
Lab Sample Id:	650903-003	Date Collected:	01.30.20 10.35	Sample Depth:	0 - 0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.20 16.24	Basis:	Wet Weight
Seq Number:	3115083				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1040**	50.3	mg/kg	01.30.20 20.09		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.30.20 16.50	Basis:	Wet Weight
Seq Number:	3115096				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.31.20 03.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.31.20 03.00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.31.20 03.00	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	01.31.20 03.00	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.31.20 03.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	137	%	70-135	01.31.20 03.00	**
o-Terphenyl	84-15-1	136	%	70-135	01.31.20 03.00	**

Certificate of Analytical Results 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	01.30.20 13.58
Lab Sample Id:	650903-003	Date Collected:	01.30.20 10.35	Sample Depth:	0 - 0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.20 15.00	Basis:	Wet Weight
Seq Number:	3115056				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.30.20 21.43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.30.20 21.43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.30.20 21.43	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.30.20 21.43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.30.20 21.43	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	01.30.20 21.43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.30.20 21.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	01.30.20 21.43	
1,4-Difluorobenzene	540-36-3	111	%	70-130	01.30.20 21.43	

Certificate of Analytical Results 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id:	**SS04**	Matrix:	Soil	Date Received:	01.30.20 13.58
Lab Sample Id:	650903-004	Date Collected:	01.30.20 11.00	Sample Depth:	0 - 0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.20 16.24	Basis:	Wet Weight
Seq Number:	3115083				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3030**	50.3	mg/kg	01.30.20 20.15		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.30.20 17.30	Basis:	Wet Weight
Seq Number:	3115105				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.31.20 03.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.31.20 03.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.31.20 03.59	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	01.31.20 03.59	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.31.20 03.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	01.31.20 03.59	
o-Terphenyl	84-15-1	100	%	70-135	01.31.20 03.59	

Certificate of Analytical Results 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id:	**SS04**	Matrix:	Soil	Date Received:	01.30.20 13.58
Lab Sample Id:	650903-004	Date Collected:	01.30.20 11.00	Sample Depth:	0 - 0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.20 16.31	Basis:	Wet Weight
Seq Number:	3115060				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.31.20 00.47	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.31.20 00.47	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.31.20 00.47	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.31.20 00.47	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.31.20 00.47	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	01.31.20 00.47	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.31.20 00.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	01.31.20 00.47	
1,4-Difluorobenzene	540-36-3	110	%	70-130	01.31.20 00.47	

Certificate of Analytical Results 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id:	**SS05**	Matrix:	Soil	Date Received:	01.30.20 13.58
Lab Sample Id:	650903-005	Date Collected:	01.30.20 11.20	Sample Depth:	0 - 0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.20 16.24	Basis:	Wet Weight
Seq Number:	3115083				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2310**	49.7	mg/kg	01.30.20 20.33		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.30.20 17.30	Basis:	Wet Weight
Seq Number:	3115105				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.31.20 04.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.31.20 04.19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.31.20 04.19	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	01.31.20 04.19	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.31.20 04.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	01.31.20 04.19	
o-Terphenyl	84-15-1	110	%	70-135	01.31.20 04.19	

Certificate of Analytical Results 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id:	**SS05**	Matrix:	Soil	Date Received:	01.30.20 13.58
Lab Sample Id:	650903-005	Date Collected:	01.30.20 11.20	Sample Depth:	0 - 0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.20 16.31	Basis:	Wet Weight
Seq Number:	3115060				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.31.20 01.07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.31.20 01.07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.31.20 01.07	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.31.20 01.07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.31.20 01.07	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	01.31.20 01.07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.31.20 01.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	01.31.20 01.07	
1,4-Difluorobenzene	540-36-3	111	%	70-130	01.31.20 01.07	

Certificate of Analytical Results 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id:	**SS06**	Matrix:	Soil	Date Received:	01.30.20 13.58
Lab Sample Id:	650903-006	Date Collected:	01.30.20 11.40	Sample Depth:	0 - 0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.20 16.24	Basis:	Wet Weight
Seq Number:	3115083				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**177**	9.98	mg/kg	01.30.20 20.39		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.30.20 17.30	Basis:	Wet Weight
Seq Number:	3115105				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.31.20 04.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.31.20 04.38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.31.20 04.38	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	01.31.20 04.38	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.31.20 04.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	01.31.20 04.38	
o-Terphenyl	84-15-1	99	%	70-135	01.31.20 04.38	

Certificate of Analytical Results 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id:	**SS06**	Matrix:	Soil	Date Received:	01.30.20 13.58
Lab Sample Id:	650903-006	Date Collected:	01.30.20 11.40	Sample Depth:	0 - 0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.20 16.31	Basis:	Wet Weight
Seq Number:	3115060				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.31.20 01.28	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.31.20 01.28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.31.20 01.28	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.31.20 01.28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.31.20 01.28	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	01.31.20 01.28	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.31.20 01.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	01.31.20 01.28	
1,4-Difluorobenzene	540-36-3	110	%	70-130	01.31.20 01.28	

Certificate of Analytical Results 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id:	**SS07**	Matrix:	Soil	Date Received:	01.30.20 13.58
Lab Sample Id:	650903-007	Date Collected:	01.30.20 11.55	Sample Depth:	0 - 0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.20 16.24	Basis:	Wet Weight
Seq Number:	3115083				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8910**	50.4	mg/kg	01.30.20 20.45		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.30.20 17.30	Basis:	Wet Weight
Seq Number:	3115105				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.31.20 04.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.31.20 04.38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.31.20 04.38	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	01.31.20 04.38	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.31.20 04.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	01.31.20 04.38	
o-Terphenyl	84-15-1	110	%	70-135	01.31.20 04.38	

Certificate of Analytical Results 650903

LT Environmental, Inc., Arvada, CO

C 17 State 1H

Sample Id:	**SS07**	Matrix:	Soil	Date Received:	01.30.20 13.58
Lab Sample Id:	650903-007	Date Collected:	01.30.20 11.55	Sample Depth:	0 - 0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.20 16.31	Basis:	Wet Weight
Seq Number:	3115060				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.31.20 01.48	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.31.20 01.48	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.31.20 01.48	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.31.20 01.48	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.31.20 01.48	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	01.31.20 01.48	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.31.20 01.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	01.31.20 01.48	
4-Bromofluorobenzene	460-00-4	97	%	70-130	01.31.20 01.48	

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 Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 650903

LT Environmental, Inc.

C 17 State 1H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115083 — Matrix: Solid — Date Prep: 01.30.20
MB Sample Id: 7695601-1-BLK — LCS Sample Id: 7695601-1-BKS — LCSD Sample Id: 7695601-1-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	259	104	261	104	90-110	1	20	mg/kg	01.30.20 19:20	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115083 — Matrix: Soil — Date Prep: 01.30.20
Parent Sample Id: 650883-024 — MS Sample Id: 650883-024 S — MSD Sample Id: 650883-024 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	841	200	1060	110	1050	105	90-110	1	20	mg/kg	01.30.20 19:38	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3115096 — Matrix: Solid — Date Prep: 01.30.20
MB Sample Id: 7695660-1-BLK — LCS Sample Id: 7695660-1-BKS — LCSD Sample Id: 7695660-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1090	109	905	91	70-135	19	35	mg/kg	01.30.20 23:03	
Diesel Range Organics (DRO)	<50.0	1000	917	92	1030	103	70-135	12	35	mg/kg	01.30.20 23:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	87		132		107		70-135	%	01.30.20 23:03
o-Terphenyl	82		114		97		70-135	%	01.30.20 23:03

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3115105 — Matrix: Solid — Date Prep: 01.30.20
MB Sample Id: 7695665-1-BLK — LCS Sample Id: 7695665-1-BKS — LCSD Sample Id: 7695665-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1060	106	1130	113	70-135	6	35	mg/kg	01.31.20 03:40	
Diesel Range Organics (DRO)	103	1000	1050	105	976	98	70-135	7	35	mg/kg	01.31.20 03:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		131		134		70-135	%	01.31.20 03:40
o-Terphenyl	98		133		122		70-135	%	01.31.20 03:40

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 650903

LT Environmental, Inc.

C 17 State 1H

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3115096 — Matrix: Solid — Date Prep: 01.30.20
MB Sample Id: 7695660-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.30.20 23:03	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3115105 — Matrix: Solid — Date Prep: 01.30.20
MB Sample Id: 7695665-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.31.20 03:20	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3115096 — Matrix: Soil — Date Prep: 01.30.20
Parent Sample Id: 650883-009 — MS Sample Id: 650883-009 S — MSD Sample Id: 650883-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	936	94	1010	101	70-135	8	35	mg/kg	01.30.20 23:43	
Diesel Range Organics (DRO)	113	1000	850	74	948	84	70-135	11	35	mg/kg	01.30.20 23:43	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		122		70-135	%	01.30.20 23:43
o-Terphenyl	103		108		70-135	%	01.30.20 23:43

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3115105 — Matrix: Soil — Date Prep: 01.30.20
Parent Sample Id: 650903-004 — MS Sample Id: 650903-004 S — MSD Sample Id: 650903-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1180	118	1100	109	70-135	7	35	mg/kg	01.31.20 11:29	
Diesel Range Organics (DRO)	<50.2	1000	1010	101	1010	100	70-135	0	35	mg/kg	01.31.20 11:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	135		132		70-135	%	01.31.20 11:29
o-Terphenyl	135		128		70-135	%	01.31.20 11:29

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 650903

LT Environmental, Inc.

C 17 State 1H

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3115056 | Matrix: Solid | Date Prep: 01.30.20
MB Sample Id: 7695572-1-BLK | LCS Sample Id: 7695572-1-BKS | LCSD Sample Id: 7695572-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.119	119	0.109	109	70-130	9	35	mg/kg	01.30.20 12:46	
Toluene	<0.00200	0.100	0.109	109	0.0994	99	70-130	9	35	mg/kg	01.30.20 12:46	
Ethylbenzene	<0.00200	0.100	0.104	104	0.0946	95	71-129	9	35	mg/kg	01.30.20 12:46	
m,p-Xylenes	<0.00400	0.200	0.202	101	0.184	92	70-135	9	35	mg/kg	01.30.20 12:46	
o-Xylene	<0.00200	0.100	0.102	102	0.0938	94	71-133	8	35	mg/kg	01.30.20 12:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		109		109		70-130	%	01.30.20 12:46
4-Bromofluorobenzene	90		89		94		70-130	%	01.30.20 12:46

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3115060 | Matrix: Solid | Date Prep: 01.30.20
MB Sample Id: 7695604-1-BLK | LCS Sample Id: 7695604-1-BKS | LCSD Sample Id: 7695604-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.111	111	0.114	114	70-130	3	35	mg/kg	01.30.20 23:05	
Toluene	<0.00200	0.100	0.101	101	0.105	105	70-130	4	35	mg/kg	01.30.20 23:05	
Ethylbenzene	<0.00200	0.100	0.0978	98	0.101	101	71-129	3	35	mg/kg	01.30.20 23:05	
m,p-Xylenes	<0.00400	0.200	0.192	96	0.198	99	70-135	3	35	mg/kg	01.30.20 23:05	
o-Xylene	<0.00200	0.100	0.0973	97	0.100	100	71-133	3	35	mg/kg	01.30.20 23:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		108		109		70-130	%	01.30.20 23:05
4-Bromofluorobenzene	93		91		92		70-130	%	01.30.20 23:05

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3115056 | Matrix: Soil | Date Prep: 01.30.20
Parent Sample Id: 650838-001 | MS Sample Id: 650838-001 S | MSD Sample Id: 650838-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0988	0.119	120	0.116	117	70-130	3	35	mg/kg	01.30.20 13:27	
Toluene	<0.00198	0.0988	0.128	130	0.106	107	70-130	19	35	mg/kg	01.30.20 13:27	
Ethylbenzene	<0.00198	0.0988	0.123	124	0.102	103	71-129	19	35	mg/kg	01.30.20 13:27	
m,p-Xylenes	<0.00395	0.198	0.240	121	0.199	101	70-135	19	35	mg/kg	01.30.20 13:27	
o-Xylene	<0.00198	0.0988	0.120	121	0.0992	100	71-133	19	35	mg/kg	01.30.20 13:27	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		109		70-130	%	01.30.20 13:27
4-Bromofluorobenzene	94		92		70-130	%	01.30.20 13:27

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

QC Summary 650903

LT Environmental, Inc.

C 17 State 1H

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

Seq Number: 3115060 Matrix: Soil Date Prep: 01.30.20

Parent Sample Id: 650903-004 MS Sample Id: 650903-004 S MSD Sample Id: 650903-004 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	0.0994	0.0848	85	0.101	100	70-130	17	35	mg/kg	01.30.20 23:46	
Toluene	<0.00199	0.0994	0.0726	73	0.0919	91	70-130	23	35	mg/kg	01.30.20 23:46	
Ethylbenzene	<0.00199	0.0994	0.0717	72	0.0872	86	71-129	20	35	mg/kg	01.30.20 23:46	
m,p-Xylenes	<0.00398	0.199	0.177	89	0.170	85	70-135	4	35	mg/kg	01.30.20 23:46	
o-Xylene	<0.00199	0.0994	0.0802	81	0.0854	85	71-133	6	35	mg/kg	01.30.20 23:46	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		109		70-130	%	01.30.20 23:46
4-Bromofluorobenzene	95		95		70-130	%	01.30.20 23:46

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

Chain of Custody

Work Order No: 650903

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

Project Manager:	Chris McKisson	Bill to: (if different)	→
Company Name:	LT Environmental	Company Name:	→
Address:	820 Megan Ave, Unit B	Address:	
City, State ZIP:	Rifle, CO 81650	City, State ZIP:	
Phone:	970 285 9985	Email:	cmckisson@ltenv.com tabyers@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	C 17 State 1H	Turn Around	
Project Number:	034820004	Routine	☒
Project Location	Rural Eddy County	Rush:	
Sampler's Name:	Anna Byers	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	0.4	Thermometer ID	T-NM-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	7

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
	SS01	S	1/30/20	0955	0-0.3'	1		X	X	X	
	SS02	S		1015		1		X	X	X	
	SS03	S		1035		1		X	X	X	
	SS04	S		1100		1		X	X	X	
	SS05	S		1120		1		X	X	X	
	SS06	S		1140		1		X	X	X	
	SS07	S	↓	1155	↓	1		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U

1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Anna Byers		1/30/20 1358	2		
			4		
			6		

Revised Date 022619 Rev. 2019.1

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 01.30.2020 01.58.00 PM

Work Order #: 650903

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.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)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 01.30.2020

Checklist reviewed by: Jessica Kramer Date: 01.31.2020

Jessica Kramer