1625 N. French Dr., Hobbs, NM 88240 District II 81 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	NRM2006457917
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy			OGRID					
Contact Name Kyle Littrell			Contact To	Contact Telephone 432-221-7331				
Contact email Kyle_Littrell@xtoenergy.com			Incident #	Incident # (assigned by OCD)				
Contact mailing address	522 W. Mermo	od, Carlsbad, NM 8822	20					
Location of Release Source								
Latitude 32.270511 Longitude -103.937329 (NAD 83 in decimal degrees to 5 decimal places)								
Site Name Remuda 50	0 Battery		Site Type	Tank Battery				
Date Release Discovered	d 2/20/2020		API# (if app	plicable)				
Unit Letter Section	Township	Range	Cour	nty				
O 25	23S	29E	Eddy					
		Nature and V	olume of l	Release : justification for the volumes provided below)				
Crude Oil	Volume Release	ed (bbls)		Volume Recovered (bbls)				
Produced Water	Volume Releas	ed (bbls) 15.82		Volume Recovered (bbls) 15				
	Is the concentra	tion of dissolved chlor >10,000 mg/l?	ride in the	☐ Yes ☐ No				
Condensate	Volume Release	ed (bbls)		Volume Recovered (bbls)				
☐ Natural Gas	Volume Release	ed (Mcf)		Volume Recovered (Mcf)				
Other (describe)	Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)							
Cause of Release: A worn seal on a transfer pump caused produced water to leak into an impermeable containment and surrounding caliche pad. Of the total fluid released, 13 bbls were recovered from impermeable containment, 2 bbls were recovered from caliche pad, and 0.82 bbl remain on caliche pad surface. A third party contractor was retained to complete remediation activities.								

Received by OCD: 5/19/202@821013	mate of New Mexico
Page 2	Oil Conservation Division

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Was this a major	If YES, for what reason(s) does the respons	ible party consider this a major release?
release as defined by	37/4	
19.15.29.7(A) NMAC?	N/A	
☐ Yes ⊠ No		
If YES, was immediate no N/A	otice given to the OCD? By whom? To who	m? When and by what means (phone, email, etc)?
	Initial Res	sponse
The responsible p	party must undertake the following actions immediately t	unless they could create a safety hazard that would result in injury
∑ The source of the rele	ease has been stopped.	
☐ The impacted area has	s been secured to protect human health and th	e environment.
Released materials ha	ve been contained via the use of berms or dik	es, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain wh	ny:
N/A		
D 1011000D (1)		
		nediation immediately after discovery of a release. If remediation forts have been successfully completed or if the release occurred
within a lined containmen	t area (see 19.15.29.11(A)(5)(a) NMAC), ple	ase attach all information needed for closure evaluation.
I hereby certify that the infor	mation given above is true and complete to the be	st of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release notific	ations and perform corrective actions for releases which may endanger D does not relieve the operator of liability should their operations have
failed to adequately investiga	ate and remediate contamination that pose a threat	to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	a C-141 report does not relieve the operator of res	sponsibility for compliance with any other federal, state, or local laws
Printed Name: Kyle,	Littrell	Title:SH&E Supervisor
Signature:	Mul	Date:3/4/20
email: Kyle Littrell@	xtoenergy.com	Telephone:
OCD Only		
Received by: Ramona	Marcus	Date: _3/4/2020
- J		<u> </u>

Total Produced Water =

NRM2006457917

15.00 bbls

Location:	Remuda 500 Battery		
Spill Date:	2/20/2020		
	Area 1		
Approximate A	rea =	84.09	cu. ft.
	VOLUME RECOVERED		
Total Produced	Water =	15.00	bbls
	Area 2		
Approximate A	rea =	3674.00	sq. ft.
Average Satura	tion (or depth) of spill =	0.50	inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Produced	Water =	0.82	bbls
	TOTAL VOLUME OF LEAK		
Total Produced	l Water =	15.82	bbls

TOTAL VOLUME RECOVERED

Received by OCD: 5/19/2020 8:10:30 AM Form C-141 State of New Mexico
Page 3 Oil Conservation Division

■ Laboratory data including chain of custody

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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?	<50' (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 vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well 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	ls.
☐ Topographic/Aerial maps	

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Date: 05/19/2020

Email: Kyle Littrell@xtoenergy.com

Telephone: (432)-221-7331

OCD Only

Received by: Cristina Eads

Date: 05/19/2020

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	I uge o oj
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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 follow	wing items must be included in the closure report.
A scaled site and sampling diagram as described in 19.1	5.29.11 NMAC
Photographs of the remediated site prior to backfill or p must be notified 2 days prior to liner inspection)	photos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate	e ODC 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 may endanger public health or the environment. The acceptan should their operations have failed to adequately investigate a human health or the environment. In addition, OCD acceptan compliance with any other federal, state, or local laws and/or restore, reclaim, and re-vegetate the impacted surface area to accordance with 19.15.29.13 NMAC including notification to Printed Name: Kyle Littrell Kyle Littrell	•
OCD Only	
Received by: Cristina Eads	Date: 05/19/2020
	party of liability should their operations have failed to adequately investigate and urface water, human health, or the environment nor does not relieve the responsible s and/or regulations.
Closure Approved by:	Date: _08/05/2020
Printed Name: Cristina Eads	Title: Environmental Specialist

A proud member of WSP

LT Environmental, Inc.

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432.704.5178

May 19, 2020

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

RE: Closure Request Remuda 500 Battery

Incident Number NRM2006457917

Eddy County, New Mexico

Dear Mr. Bratcher:

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 Remuda 500 Battery (Site) in Unit O, Section 25, Township 23 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to confirm the presence or absence of impacts to soil following the release of produced water at the Site. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NRM2006457917.

RELEASE BACKGROUND

On February 20, 2020, a seal on a transfer pump malfunctioned, resulting in the release of approximately 15.28 barrels (bbls) of produced water into an impermeable containment and onto the surrounding caliche well pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids, of which approximately 13 bbls of produced water were recovered from within the impermeable containment, and approximately 2 bbls of produced water were recovered from the caliche pad. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on March 4, 2020 and subsequently assigned Incident Number NRM2006457917.

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 less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321717103561001, located approximately 1.22 miles north of the Site. The groundwater well has



Bratcher, M. Page 2

a reported depth to groundwater of 50 feet bgs, total depth is undetermined. The closest continuously flowing water or significant watercourse to the Site is an unnamed dry wash, located approximately 176 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 not underlain by unstable geology (medium potential karst designation area). The Site receptors are identified on Figure 1.

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): 100 mg/kg

Chloride: 600 mg/kg

SITE ASSESSMENT, DELINEATION, AND EXCAVATION ACTIVITIES

On April 8, 2020, LTE personnel inspected the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. LTE personnel collected three preliminary soil samples (SS01 through SS03) within the release extent at a depth of approximately 0.5 feet bgs to assess the lateral extent of affected surface soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positing System (GPS) unit and are depicted on Figure 2. Photo documentation of the release was conducted, and a photographic log of the Site and the remediation work is included as Attachment 1.

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



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Based on the laboratory analytical results, benzene, BTEX, TPH-GRO, TPH-DRO, and TPH concentrations were compliant with the Closure Criteria. However, chloride concentrations did appear to exceed the Closure Criteria in preliminary soil samples SS01 through SS03. Additional assessment activities were scheduled to further confirm the presence or absence of impacted soil at depth. Laboratory analytical results for the preliminary soil samples are presented on Figure 2 and summarized in Table 1. The Laboratory analytical report is included in Attachment 2.

On May 5, 2020, LTE personnel returned to the Site to oversee additional soil assessment activities. Six delineation pothole samples (PH01 through PH06) were advanced via track-mounted backhoe within the release extent to a depth of approximately 0.5 feet to 1-foot bgs. Soil from the potholes was field screened utilizing a PID and Hach® chloride QuanTab® test strips. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 3. The delineation soil sample locations are depicted on Figure 3. The delineation soil samples were collected, handled and analyzed for chloride as described above and submitted to Xenco in Carlsbad, New Mexico. All potholes were backfilled with the soil removed.

LTE oversaw three small excavations with a track-mounted backhoe on May 5, 2020 to address the chloride impacts in preliminary soil samples SS01 through SS03. Preliminary soil samples SS01 through SS03 within the release extent was excavated to a depth of approximately 1-foot bgs. LTE collected 5-point composite soil samples every 200 square feet from the floor of the excavations. The 5-point composite samples were collected by depositing five aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. A total of 3 floor soil samples (FS01 through FS03) were collected from the excavations. The excavation soil samples were collected, handled, and analyzed as described above and submitted to Xenco in Carlsbad, New Mexico. The excavation extent and excavation soil sample locations are depicted on Figure 4 and summarized in Table 1. The complete laboratory analytical reports are included as Attachment 2.

Overall, impacted caliche from the three excavations encompassed an area of approximately 141 square feet on pad. A total volume of approximately 5 cubic yards of impacted caliche was removed from the Site. The impacted material was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico.

ANALYTICAL RESULTS

Laboratory analytical results indicated benzene, BTEX, TPH-GRO, TPH-DRO, and TPH concentrations were compliant with the Closure Criteria in preliminary soil samples. Chloride concentrations did appear to exceed the Closure Criteria in preliminary soil samples SS01 through SS03 collected at approximately 0.5 feet bgs. Delineation soil samples PH01 through PH06



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collected at approximately 0.5 feet bgs and 1-foot bgs indicated concentrations of benzene, BTEX, TPH-GRO, TPH, and chloride were compliant with the Closure Criteria.

Following an initial excavation event, LTE collected confirmation soil samples within the three small excavation extents at preliminary soil sample locations (SS01 through SS03). Laboratory analytical results indicated that benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in excavation soil samples FS01 through FS03 collected at approximately 1-foot bgs. Laboratory analytical results are presented in Table 1. The complete laboratory analytical reports are included as Attachment 3.

CONCLUSIONS

Initial and follow-up response efforts as a result of the produced water release included removal of freestanding fluid via hydrovac truck, collection of delineation soil samples, and excavation and removal of impacted soils. Preliminary soil samples SS01 through SS03 and delineation soil samples PH01 through PH06 were collected from within the release area from depths ranging from 0.5 feet to 1-foot bgs to assess for the presence or absence of soil impacts as a result of the February 20, 2020, release. Soil samples SS01 through SS03 indicated that chloride concentrations exceeded the Closure Criteria. Based on the analytical results, the areas were excavated, removing impacted soils from the surface to a depth of 1-foot bgs. Laboratory analytical results for the delineation and final confirmation soil samples collected within the final excavation extent (FS01 through FS03) indicated that benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the NMOCD Closure Criteria. XTO respectfully requests NFA for Incident Number NRM200645.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Kalu Jennings

Kalei Jennings

Project Environmental Scientist

Ashley L. Ager, P.G.

ashley L. ager

Senior Geologist

cc: Kyle Littrell, XTO

Ryan Mann, State Land Office



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Robert Hamlet, NMOCD Victoria Venegas, NMOCD

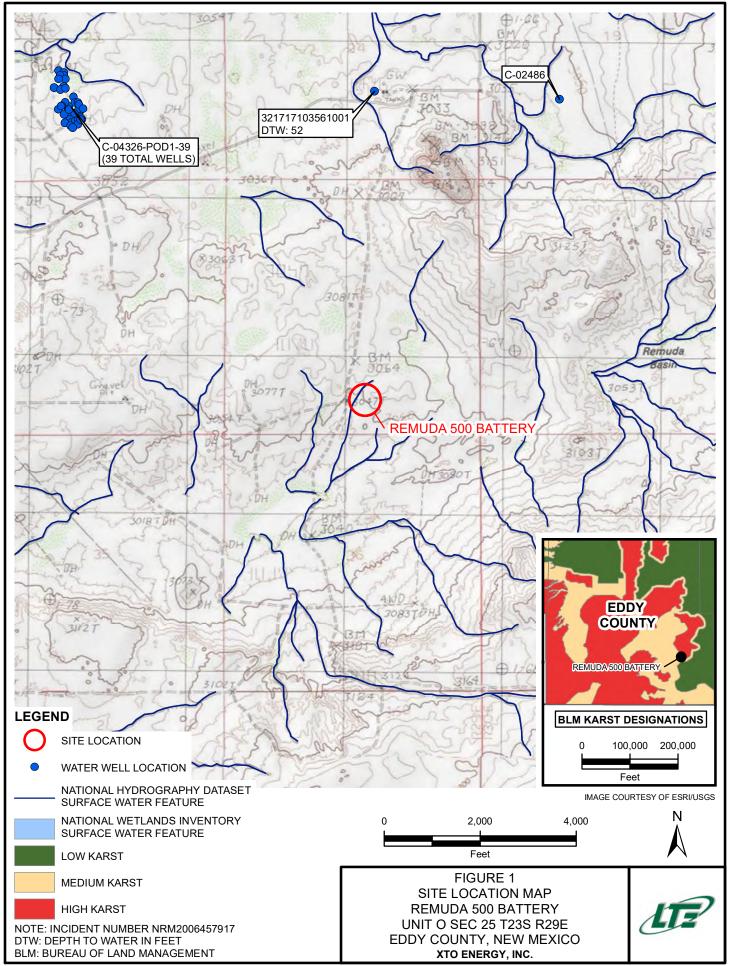
Appendices:

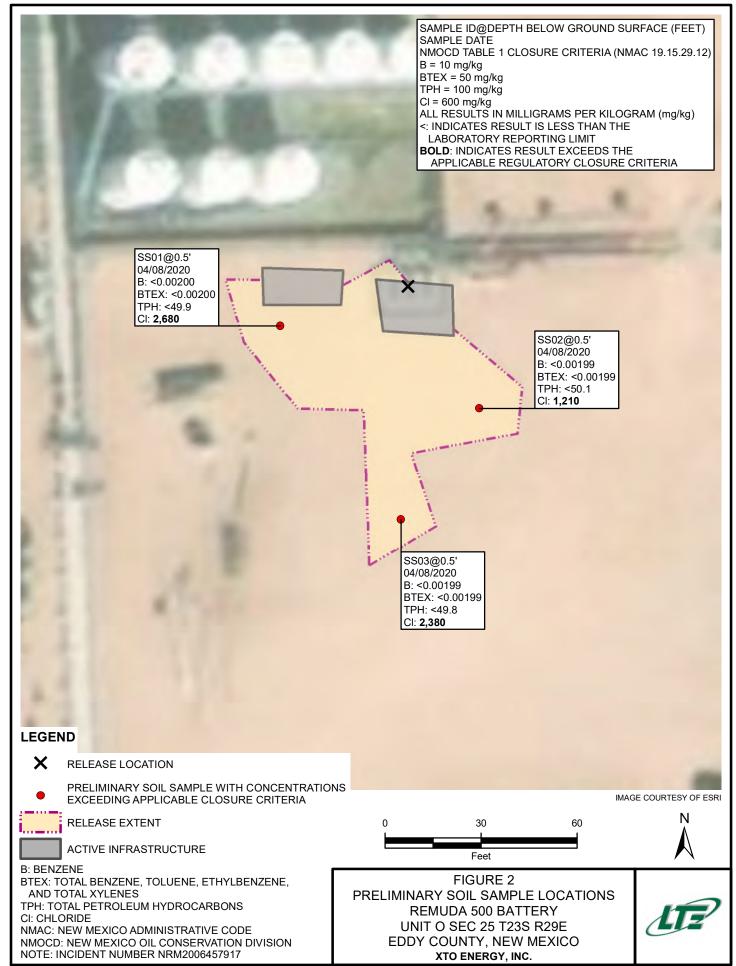
Figure 1 Site Location Map

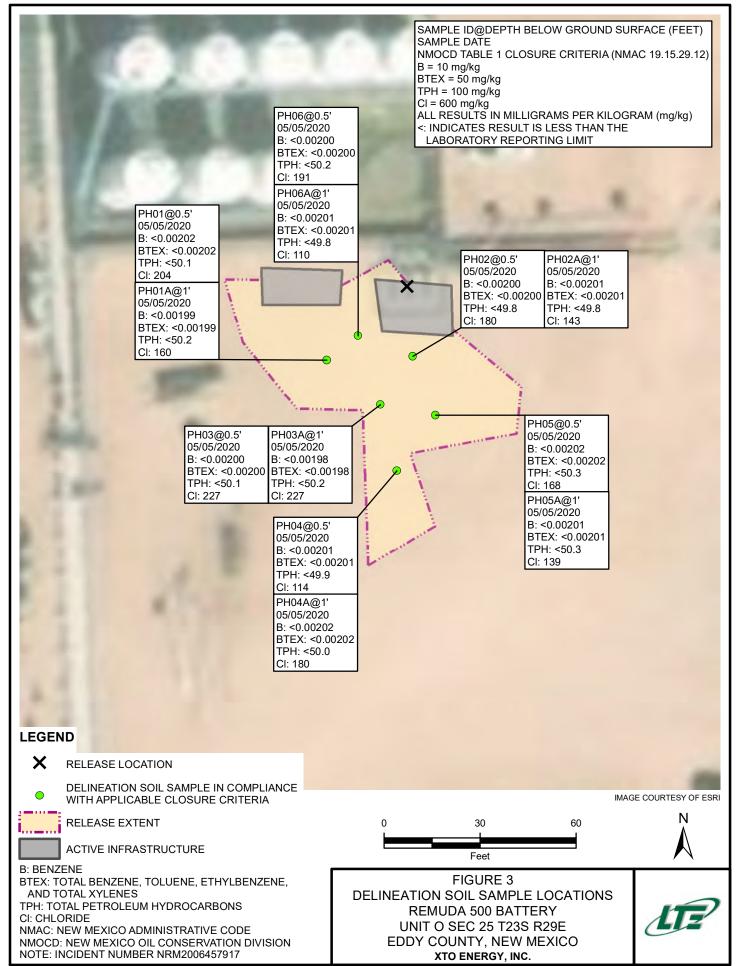
Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Figure 4 Excavation Soil Sample Locations

Table 1 Soil Analytical Results Attachment 1 Photographic Logs

Attachment 2 Laboratory Analytical Reports Attachment 3 Lithologic/Soil Sampling Logs







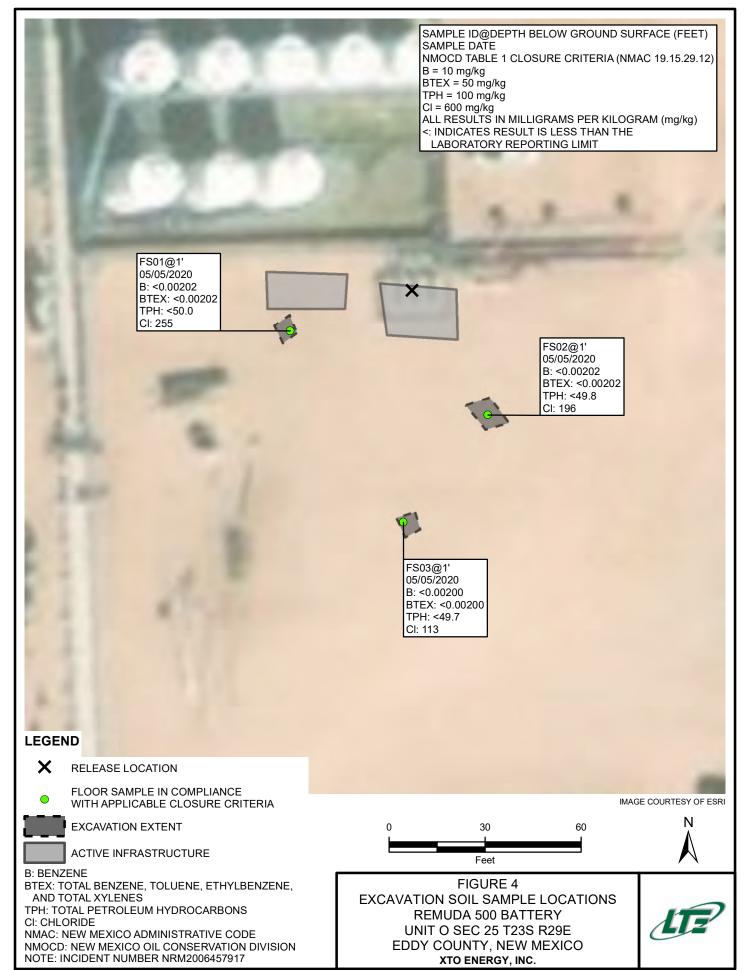




TABLE 1 SOIL ANALYTICAL RESULTS

REMUDA 500 BATTERY INCIDENT NUMBER NRM2006457917 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)
NMOCD Table	1 Closure Crit	eria	10	NE	NE	NE	50	NE	NE	NE	NE	100	600
SS01	0.5	04/08/2020	< 0.00200	< 0.00200	< 0.00200	<0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	2,680
SS02	0.5	04/08/2020	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	1,210
SS03	0.5	04/08/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	2,380
PH01	0.5	05/05/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	204
PH01A	1	05/05/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	160
PH02	0.5	05/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	180
PH02A	1	05/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	143
PH03	0.5	05/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	227
PH03A	1	05/05/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.2	<50.2	<50.2	<50.2	<50.2	227
PH04	0.5	05/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	114
PH04A	1	05/05/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	180
PH05	0.5	05/05/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.3	<50.3	<50.3	<50.3	<50.3	168
PH05A	1	05/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.3	<50.3	<50.3	<50.3	<50.3	139
PH06	0.5	05/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	191
PH06A	1	05/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	110
FS01	1	05/05/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	255
FS02	1	05/05/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	196
FS03	1	05/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.7	<49.7	<49.7	<49.7	<49.7	113

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





PHOTOGRAPHIC LOG



Photograph 1: View of release facing West.



Photograph 2: View of release facing North.



Photograph 3: View of location of FS02 facing North.



Photograph 4: View of backfilled excavations facing North.



Photograph 5: View of FS02 and FS03 facing south.



Photograph 6: View of backfilled excavations facing west.



Analytical Report 658608

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda 500 Cost Center:1067601001 04.13.2020

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)



04.13.2020

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

Reference: XENCO Report No(s): 658608

Remuda 500 Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 658608. 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. 658608 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

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 658608

LT Environmental, Inc., Arvada, CO

Remuda 500

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	04.08.2020 10:25	0.5 ft	658608-001
SS02	S	04.08.2020 10:34	0.5 ft	658608-002
SS03	S	04.08.2020 10:41	0.5 ft	658608-003

CASE NARRATIVE

Report Date:

04.13.2020

Client Name: LT Environmental, Inc.

Project Name: Remuda 500

Project ID: Cost Center: 1067601001

Work Order Number(s): 658608 Date Received: 04.10.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3122766 BTEX by EPA 8021B

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

Received by OCD: 5/19/2020 8:10:30 AM

Certificate of Analysis Summary 658608

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 500

Project Id: Contact:

Cost Center: 1067601001

Dan Moir

Date Received in Lab: Fri 04.10.2020 13:25

Report Date: 04.13.2020 12:21

Project Location:								Project M	anager: Jessica Krai	mer
	Lab Id:	658608-0	01	658608-002		658608-0	003			
Amalusia Dogwooted	Field Id:	SS01		SS02		SS03				
Analysis Requested	Depth:	0.5- ft		0.5- ft		0.5- ft				
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	04.08.2020	04.08.2020 10:25		10:34	04.08.2020	10:41			
BTEX by EPA 8021B	Extracted:	04.10.2020	20:27	04.10.2020	20:27	04.10.2020	20:27			
	Analyzed:	04.11.2020	10:25	04.11.2020	10:45	04.11.2020	11:06			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Benzene	•	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199			
Toluene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199			
Ethylbenzene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199			
m,p-Xylenes		< 0.00400	0.00400	< 0.00398	0.00398	< 0.00398	0.00398			
o-Xylene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199			
Total Xylenes		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199			
Total BTEX		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199			
Chloride by EPA 300	Extracted:	04.10.2020	15:00	04.10.2020	15:00	04.10.2020	15:00			
	Analyzed:	04.10.2020	16:27	04.10.2020	16:43	04.10.2020	16:49			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		2680	49.6	1210	9.98	2380	49.7			
TPH by SW8015 Mod	Extracted:	04.10.2020	15:30	04.10.2020	15:30	04.10.2020	15:30			
	Analyzed:	04.10.2020	19:25	04.10.2020	19:46	04.10.2020	20:26			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.1	50.1	<49.8	49.8			
Diesel Range Organics (DRO)		<49.9	49.9	<50.1	50.1	<49.8	49.8			
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.1	50.1	<49.8	49.8			
Total GRO-DRO		<49.9	49.9	<50.1	50.1	<49.8	49.8			
Total TPH		<49.9	49.9	< 50.1	50.1	<49.8	49.8			

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 Manager



LT Environmental, Inc., Arvada, CO

Remuda 500

Sample Id: **SS01**

Matrix: Soil Date Received:04.10.2020 13:25

Lab Sample Id: 658608-001

Date Collected: 04.08.2020 10:25

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

% Moisture:

Tech: Analyst:

MAB

Date Prep:

04.10.2020 15:00

Basis:

Wet Weight

Seq Number: 3122768

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2680	49.6	mg/kg	04.10.2020 16:27		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Wet Weight

DTH Tech:

Analyst:

DTH

04.10.2020 15:30 Date Prep:

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	04.10.2020 19:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	04.10.2020 19:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	04.10.2020 19:25	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	04.10.2020 19:25	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	04.10.2020 19:25	U	1
Surrogate	c	as Number %	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	118	%	70-135	04.10.2020 19:25
o-Terphenyl	84-15-1	130	%	70-135	04.10.2020 19:25



LT Environmental, Inc., Arvada, CO

Remuda 500

Sample Id:

SS01

Matrix:

Date Received:04.10.2020 13:25

Lab Sample Id: 658608-001

Soil Date Collected: 04.08.2020 10:25

Sample Depth: 0.5 ft

Prep Method: SW5030B

Analytical Method: BTEX by EPA 8021B

Tech:

Analyst:

MAB

MAB

Date Prep:

 $04.10.2020\ 20:27$

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.11.2020 10:25	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.11.2020 10:25	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.11.2020 10:25	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	04.11.2020 10:25	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.11.2020 10:25	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.11.2020 10:25	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.11.2020 10:25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	96	%	70-130	04.11.2020 10:25		
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.11.2020 10:25		



LT Environmental, Inc., Arvada, CO

Remuda 500

Sample Id: **SS02** Matrix:

Soil

Date Received:04.10.2020 13:25

Lab Sample Id: 658608-002

Date Collected: 04.08.2020 10:34

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst:

MAB

04.10.2020 15:00

Basis:

Wet Weight

Seq Number: 3122768

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1210	9.98	mg/kg	04.10.2020 16:43		1

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

04.10.2020 15:30 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	04.10.2020 19:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	04.10.2020 19:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	04.10.2020 19:46	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	04.10.2020 19:46	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	04.10.2020 19:46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	



LT Environmental, Inc., Arvada, CO

Remuda 500

Sample Id: **SS02**

Matrix:

Date Received:04.10.2020 13:25

Lab Sample Id: 658608-002

Soil Date Collected: 04.08.2020 10:34

04.10.2020 20:27

Sample Depth: 0.5 ft

04.11.2020 10:45

04.11.2020 10:45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Basis:

Tech:

MAB MAB

Date Prep:

1330-20-7

% Moisture:

mg/kg

mg/kg

Wet Weight

U

U

1

1

Analyst:

Total Xylenes

Total BTEX

Seq Number: 3122766

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199	mg/kg	04.11.2020 10:45	U	1
Toluene	108-88-3	< 0.00199	0.00199	mg/kg	04.11.2020 10:45	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	mg/kg	04.11.2020 10:45	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	mg/kg	04.11.2020 10:45	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	mg/kg	04.11.2020 10:45	U	1

0.00199

0.00199

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	04.11.2020 10:45	
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.11.2020 10:45	

< 0.00199

< 0.00199



LT Environmental, Inc., Arvada, CO

Remuda 500

Sample Id: **SS03**

Matrix:

Date Received:04.10.2020 13:25

Lab Sample Id: 658608-003

Soil Date Collected: 04.08.2020 10:41

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

Tech: MAB

% Moisture:

Seq Number: 3122768

Analyst:

Tech: Analyst: Date Prep: 04.10.2020 15:00 Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2380	49.7	mg/kg	04.10.2020 16:49		5

Analytical Method: TPH by SW8015 Mod

DTH

DTH

Date Prep:

04.10.2020 15:30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	04.10.2020 20:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	04.10.2020 20:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	04.10.2020 20:26	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	04.10.2020 20:26	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	04.10.2020 20:26	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	



LT Environmental, Inc., Arvada, CO

Remuda 500

Sample Id: **SS03**

Matrix:

Date Received:04.10.2020 13:25

Lab Sample Id: 658608-003

Soil Date Collected: 04.08.2020 10:41

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B % Moisture:

Tech: Analyst: MAB

MAB

Date Prep:

 $04.10.2020\ 20:27$ Basis:

70-130

04.11.2020 11:06

Wet Weight

Seq Number: 3122766

4-Bromofluorobenzene

Parameter	Cas Number	Result	\mathbf{RL}		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.11.2020 11:06	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.11.2020 11:06	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.11.2020 11:06	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.11.2020 11:06	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.11.2020 11:06	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.11.2020 11:06	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.11.2020 11:06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	106	%	70-130	04.11.2020 11:06		

97

460-00-4



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.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit. J
- Analyte was not detected.
- 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.

ND Not Detected.

RLReporting 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

DLMethod Detection Limit

NC Non-Calculable

SMP Client Sample

BLK

Method Blank

Matrix Spike

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD

Method Duplicate/Sample Duplicate

MS

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

Flag

Flag

Flag

Flag

Flag

Analysis

Date

QC Summary 658608



LT Environmental, Inc.

Remuda 500

Analytical Method: Chloride by EPA 300

Seq Number: 3122768

7701102-1-BLK

Matrix: Solid

LCS Sample Id: 7701102-1-BKS

E300P Prep Method:

RPD

%RPD

Date Prep: 04.10.2020

LCSD Sample Id: 7701102-1-BSD Units

LCS MB Spike LCS Limits LCSD LCSD **Parameter** Result Amount Result %Rec Result %Rec

Limit

Chloride <10.0 250 258 103 247 99 90-110 20 04.10.2020 16:10 4 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

Parent Sample Id:

MB Sample Id:

3122768 658608-001

Matrix: Soil

658608-001 S MS Sample Id:

E300P Prep Method:

Date Prep: 04.10.2020 MSD Sample Id: 658608-001 SD

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter**

Result Amount Result %Rec %Rec Limit Date Result 20 04.10.2020 16:32 Chloride 2680 199 2870 95 2890 104 90-110 1 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

3122768

E300P Prep Method:

Matrix: Soil Date Prep: 04.10.2020 MS Sample Id: 658610-001 S MSD Sample Id: 658610-001 SD Parent Sample Id: 658610-001

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limite Analysis **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 104 20 04.10.2020 17:43 157 200 365 369 106 90-110 1 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number:

3122702

Matrix: Solid

SW8015P Prep Method:

Date Prep: 04.10.2020

MB Sample Id: 7701065-1-BLK LCS Sample Id: 7701065-1-BKS LCSD Sample Id: 7701065-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis **Parameter** Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 04.10.2020 15:21 < 50.0 957 96 980 35 1000 98 70-135 2 mg/kg 04.10.2020 15:21 Diesel Range Organics (DRO) 1110 111 1130 70-135 2 35 < 50.0 1000 113 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Flag Flag Date %Rec 04.10.2020 15:21 1-Chlorooctane 112 128 122 70-135 % 04.10.2020 15:21 o-Terphenyl 122 129 129 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number:

3122702

Matrix: Solid

Prep Method:

SW8015P

Date Prep: 04.10.2020

MB Sample Id: 7701065-1-BLK

MB**Parameter** Result

< 50.0

Units

Analysis Date

04.10.2020 15:00 mg/kg

Motor Oil Range Hydrocarbons (MRO)

Flag

Flag

QC Summary 658608



LT Environmental, Inc.

Remuda 500

Analytical Method: TPH by SW8015 Mod

Seq Number: 3122702 Parent Sample Id:

658522-007

Matrix: Soil MS Sample Id: 658522-007 S

SW8015P Prep Method:

Date Prep: 04.10.2020

MSD Sample Id: 658522-007 SD

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) <49.8 995 1020 103 1040 35 04.10.2020 16:22 104 70-135 2 mg/kg 04.10.2020 16:22 35 Diesel Range Organics (DRO) <49.8 995 1180 119 1200 70-135 2. mg/kg 120

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	135		134		70-135	%	04.10.2020 16:22
o-Terphenyl	120		132		70-135	%	04.10.2020 16:22

Analytical Method: BTEX by EPA 8021B

3122766 Seq Number:

MB Sample Id:

7701117-1-BLK

Matrix: Solid

LCS Sample Id: 7701117-1-BKS

Prep Method:

SW5030B

Date Prep: 04.10.2020

LCSD Sample Id:

7701117-1-BSD

MB Spike LCS LCS LCSD Limits %RPD **RPD** Units Analysis LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 04.11.2020 07:01 102 < 0.00200 0.100 0.102 0.0941 70-130 8 35 Benzene 94 mg/kg 04.11.2020 07:01 Toluene < 0.00200 0.100 0.0962 96 0.0888 89 70-130 8 35 mg/kg 04.11.2020 07:01 Ethylbenzene < 0.00200 0.100 0.0906 91 0.0830 83 71-129 9 35 mg/kg 04.11.2020 07:01 m,p-Xylenes < 0.00400 0.200 0.187 94 0.172 86 70-135 8 35 mg/kg 0.0879 71-133 04.11.2020 07:01 < 0.00200 0.100 0.0955 88 8 35 o-Xylene 96 mg/kg

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		105		104		70-130	%	04.11.2020 07:01
4-Bromofluorobenzene	94		93		93		70-130	%	04.11.2020 07:01

Analytical Method: BTEX by EPA 8021B

Seg Number: 3122766 Parent Sample Id:

658616-061

Matrix: Soil

MS Sample Id:

658616-061 S

SW5030B Prep Method:

Date Prep:

04.10.2020

MSD Sample Id: 658616-061 SD

RPD **Parent** Spike MS MS MSD MSD Limits %RPD Units Analysis Flag **Parameter** Limit Date Result Amount Result %Rec %Rec Result 104 04.11.2020 07:42 < 0.00201 0.101 0.105 0.102 101 70-130 3 35 Benzene mg/kg 04.11.2020 07:42 70-130 35 Toluene < 0.00201 0.101 0.0991 98 0.0949 94 4 mg/kg 04.11.2020 07:42 Ethylbenzene < 0.00201 0.101 0.0928 92 0.0870 86 71-129 6 35 mg/kg 0.201 94 70-135 35 04.11.2020 07:42 m,p-Xylenes < 0.00402 0.189 0.178 89 6 mg/kg < 0.00201 0.101 0.0960 95 0.0906 71-133 35 04.11.2020 07:42 o-Xylene 90 6 mg/kg

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		104		70-130	%	04.11.2020 07:42
4-Bromofluorobenzene	94		92		70-130	%	04.11.2020 07:42

Revised Date 051418 Rev. 2018.1

Chain of Custody

Work Order No:

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334

LAG	LABORATORIES	Midland,TX (432	-704-5440) EI	Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296	RESOLUTION WWW Xellico COM		Page 1 of	12
Project Manager: Dan Moir		Bill to: (if	Bill to: (if different) Kyle Littrell	Kyle Littrell		Work Order Comments	ents	
Company Name:	LT Environmental, Inc., Permian office		y Name:	Company Name: XTO Energy	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ uperfund ☐	Brownfields	□RC □uperfunc	
	3300 North A Street	Address		3104 E Green Street	State of Project:			
City, State ZIP:	Midland, TX 79705	City, State ZIP:		Carlsbad, NM 88220	Reporting:Level II	□ST/UST	RRP bvei IV	
Phone:	432.236.3849	Email: delval@ltenv.com	iltenv.com		Deliverables: EDD	ADaPT Other:	Other:	

					ANALYSIS DECLIEST		Work Order Notes
Project Number:	restrate out	067601001	Routine X				
P.O. Number:			Rush:				
me:	Benjamin Belill Luis	Del W	Due Date:				
SAMPLE RECEIPT	Temp Blank:	(Yes) No	Wet Ice: Yes No				
Temperature (°C):							
Received Intact:	(Yes) No	TIMI	NM007	(21)			
Cooler Custody Seals:	01	Correction Factor:	actor: -0.2)15))=80		TAT s	TAT starts the day recevied by the
Sample Custody Seals:	Yes (No) N/A	Total Containers:	iners: 3	PA 80		la	lab, if received by 4:30pm
Sample Identification	cation Matrix	Date Time Sampled Sampled	ne Depth	Number TPH (EF BTEX (E		S	Sample Comments
5501	S	5201 and 8/4	5.0 5	1 X X X			
5502		1 1034					
STOS	<	1041	<u>-</u>	A A A A			
Total 200.7 / 6010	otal 200.7 / 6010 200.8 / 6020:	8	RCRA 13PPM Texas 11 A	-	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Mo Ni K Se Ag SiO2	Na Sr Ti Sn U V Zn 1631 i 245.1 i 7470 i 7471 : Hg
otice: Signature of this docu	ument and relinquishment o	of samples constitutes a	valid purchase order fro	m client company to Xenco, its ny losses or expenses incurre	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of services of services and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of services of services and a charge of services and submitted to Xenco, but not analyzed. These terms will be enforced unless proviously negotiated.	rd terms and conditions ances beyond the control viously negotiated.	
Relinquished by: (Signature)	Signature)	Received by: (Signature)	gnature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
has Old Van		20		4/10/20 13:25	8 8		

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.10.2020 01.25.00 PM

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

Work Order #: 658608

Temperature Measuring device used: T-NM-007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		3.8	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping conta	iner/ 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 relinquish	hed/ received?	Yes	
#10 Chain of Custody agrees with sample I	abels/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 headsp	pace?	N/A	

' Must be completed for	after-hours deliver	y of samples	prior to placii	ng in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan

Date: 04.10.2020

Checklist reviewed by: Jessica Warner

Date: 04.13.2020

Received by OCD: 5/19/2020 8:10:30 AM

Certificate of Analysis Summary 660710

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 500 Battery

Project Id:

012920055

Dan Moir

Date Received in Lab: Tue 05.05.2020 17:02

Report Date: 05.07.2020 15:36

Contact: Project Manager: Jessica Kramer **Project Location:**

	Lab Id:	660710-0	01	660710-0	02	660710-0	003		
Analysis Requested	Field Id:	FS01		FS02		FS03			
Anaiysis Requesieu	Depth:	1- ft		1- ft		1- ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	05.05.2020	10:15	05.05.2020	10:45	05.05.2020	11:15		
BTEX by EPA 8021B	Extracted:	05.06.2020	14:00	05.06.2020	14:00	05.06.2020	14:00		
	Analyzed:	05.06.2020	17:03	05.06.2020	17:24	05.06.2020	17:46		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200		
Toluene		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200		
Ethylbenzene		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200		
m,p-Xylenes		< 0.00403	0.00403	< 0.00404	0.00404	< 0.00400	0.00400		
o-Xylene		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200		
Total Xylenes		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200		
Total BTEX		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	05.06.2020	14:00	05.06.2020	14:00	05.06.2020	14:00		
	Analyzed:	05.06.2020	17:58	05.06.2020	18:03	05.06.2020	18:09		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		255	9.92	196	9.98	113	9.96		
TPH by SW8015 Mod	Extracted:	05.06.2020	17:00	05.06.2020	17:00	05.06.2020	17:00		
	Analyzed:	05.06.2020	18:14	05.06.2020	18:34	05.06.2020	18:54		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	<49.8	49.8	<49.7	49.7		
Diesel Range Organics (DRO)		< 50.0	50.0	<49.8	49.8	<49.7	49.7		
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<49.7	49.7		
Total GRO-DRO		<50.0	50.0	<49.8	49.8	<49.7	49.7		
Total TPH		< 50.0	50.0	<49.8	49.8	<49.7	49.7		

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

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

Jessica Kramer

Jessica Kramer Project Manager



Analytical Report 660710

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda 500 Battery 012920055 05.07.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.07.2020

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

Reference: XENCO Report No(s): 660710

Remuda 500 Battery Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 660710. 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. 660710 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

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 660710

LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	05.05.2020 10:15	1 ft	660710-001
FS02	S	05.05.2020 10:45	1 ft	660710-002
FS03	S	05.05.2020 11:15	1 ft	660710-003

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CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Remuda 500 Battery

Project ID: Report Date: 05.07.2020 012920055 Work Order Number(s): 660710 Date Received: 05.05.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: **FS01** Lab Sample Id: 660710-001 Matrix:

Soil

Date Received:05.05.2020 17:02

Date Collected: 05.05.2020 10:15

Sample Depth: 1 ft

Prep Method: E300P

% Moisture:

MAB Analyst: Seq Number: 3125246 Date Prep:

05.06.2020 14:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	255	9.92	mg/kg	05.06.2020 17:58		1

Analytical Method: TPH by SW8015 Mod

Analytical Method: Chloride by EPA 300

MAB

Prep Method: SW8015P

% Moisture:

Tech:

Tech:

DTH

Analyst: DTH Seq Number: 3125289

05.06.2020 17:00 Date Prep:

Basis:

Wet Weight

Flag

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	mg/kg	05.06.2020 18:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	mg/kg	05.06.2020 18:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	mg/kg	05.06.2020 18:14	U	1
Total GRO-DRO	PHC628	< 50.0	50.0	mg/kg	05.06.2020 18:14	U	1
Total TPH	PHC635	< 50.0	50.0	mg/kg	05.06.2020 18:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	98	%	70-135	05.06.2020 18:14
o-Terphenyl	84-15-1	95	%	70-135	05.06.2020 18:14



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: FS01

Matrix: Soil

Date Received:05.05.2020 17:02

Lab Sample Id: 660710-001

Date Collected: 05.05.2020 10:15

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

Date Prep: 05.06.2020 14:00

% Moisture: Basis:

Wet Weight

Analyst: M

MAB

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202	mg/kg	05.06.2020 17:03	U	1
Toluene	108-88-3	< 0.00202	0.00202	mg/kg	05.06.2020 17:03	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	mg/kg	05.06.2020 17:03	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403	mg/kg	05.06.2020 17:03	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	mg/kg	05.06.2020 17:03	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202	mg/kg	05.06.2020 17:03	U	1
Total BTEX		< 0.00202	0.00202	mg/kg	05.06.2020 17:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	05.06.2020 17:03	
4-Bromofluorobenzene	460-00-4	106	%	70-130	05.06.2020 17:03	



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: **FS02**

Tech:

Matrix: Soil Date Received:05.05.2020 17:02

Lab Sample Id: 660710-002 Date Collected: 05.05.2020 10:45 Sample Depth: 1 ft

Prep Method: E300P

% Moisture:

MAB Analyst: Date Prep: 05.06.2020 14:00 Seq Number: 3125246

Basis:

Wet Weight

Result **Parameter** Cas Number RLUnits **Analysis Date** Dil Flag Chloride 16887-00-6 196 9.98 mg/kg 05.06.2020 18:03 1

Analytical Method: TPH by SW8015 Mod

Analytical Method: Chloride by EPA 300

MAB

Prep Method: SW8015P

% Moisture:

Tech:

Analyst:

DTH DTH

05.06.2020 17:00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	05.06.2020 18:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	05.06.2020 18:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	05.06.2020 18:34	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	05.06.2020 18:34	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	05.06.2020 18:34	U	1
Surrogate		Cas Number %	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	98	%	70-135	05.06.2020 18:34
o-Terphenyl	84-15-1	98	%	70-135	05.06.2020 18:34



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: **FS02** Lab Sample Id: 660710-002

Matrix:

Soil

Date Received:05.05.2020 17:02

Date Collected: 05.05.2020 10:45 Sample Depth: 1 ft

Prep Method: SW5035A

05.06.2020 17:24

% Moisture:

Tech:

MAB

Analytical Method: BTEX by EPA 8021B

Analyst:

MAB

Date Prep:

05.06.2020 14:00

%

70-130

Basis:

Wet Weight

Seq Number: 3125244

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	05.06.2020 17:24	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	05.06.2020 17:24	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	05.06.2020 17:24	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	05.06.2020 17:24	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	05.06.2020 17:24	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	05.06.2020 17:24	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	05.06.2020 17:24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	70-130	05.06.2020 17:24		

115

540-36-3



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: FS03

Matrix:

Soil

Date Received:05.05.2020 17:02

Lab Sample Id: 660710-003

Date Collected: 05.05.2020 11:15

Sample Depth: 1 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: Analyst: MAB MAB

Date Prep:

05.06.2020 14:00

Basis:

Wet Weight

Seq Number: 3125246

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	113	9.96	mg/kg	05.06.2020 18:09		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: Analyst: DTH

DTH

Date Prep: 05.06.2020 17:00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.7	49.7		mg/kg	05.06.2020 18:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.7	49.7		mg/kg	05.06.2020 18:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.7	49.7		mg/kg	05.06.2020 18:54	U	1
Total GRO-DRO	PHC628	<49.7	49.7		mg/kg	05.06.2020 18:54	U	1
Total TPH	PHC635	<49.7	49.7		mg/kg	05.06.2020 18:54	U	1
Surrogate	(Cas Number 9	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	94	%	70-135	05.06.2020 18:54
o-Terphenyl	84-15-1	93	%	70-135	05.06.2020 18:54



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: FS03

Matrix: Soil

Date Received:05.05.2020 17:02

Lab Sample Id: 660710-003 Date Collected: 05.05.2020 11:15

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

05.06.2020 17:46

Tech: MAB

% Moisti

05.06.2020 14:00

% Moisture:

Analyst: MAB

Date Prep:

540-36-3

Basis:

70-130

Wet Weight

Seq Number: 3125244

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	05.06.2020 17:46	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	05.06.2020 17:46	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	05.06.2020 17:46	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	05.06.2020 17:46	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	05.06.2020 17:46	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	05.06.2020 17:46	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	05.06.2020 17:46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	70-130	05.06.2020 17:46		

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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.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- Analyte was not detected.
- 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.

ND Not Detected.

RLReporting 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

DLMethod 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

Flag

Flag

Flag

Flag

QC Summary 660710



LT Environmental, Inc.

Remuda 500 Battery

Analytical Method: Chloride by EPA 300

Seq Number: 3125246

7702827-1-BLK

Matrix: Solid

LCS Sample Id: 7702827-1-BKS

E300P Prep Method:

Date Prep: 05.06.2020 LCSD Sample Id: 7702827-1-BSD

LCS RPD MB Spike LCS Limits %RPD Units LCSD LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit

Chloride <10.0 250 251 100 250 90-110 0 20 05.06.2020 15:33 100 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

MB Sample Id:

3125246

Matrix: Soil

Prep Method:

E300P

05.06.2020

Analysis

Date

Date Prep: 660711-008 MS Sample Id: 660711-008 S MSD Sample Id: 660711-008 SD Parent Sample Id:

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec Result %Rec Limit Date

20 05.06.2020 17:11 Chloride 180 199 369 95 369 95 90-110 0 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

3125246

Matrix: Soil

Prep Method:

E300P

Date Prep: 05.06.2020

MS Sample Id: 660732-001 S MSD Sample Id: 660732-001 SD Parent Sample Id: 660732-001

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limits Analysis **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 0 20 05.06.2020 15:51 475 200 661 93 659 92 90-110 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number:

3125289

Matrix: Solid

SW8015P Prep Method:

Date Prep: 05.06.2020

MB Sample Id: 7702864-1-BLK LCS Sample Id: 7702864-1-BKS LCSD Sample Id: 7702864-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis **Parameter** Result Result Limit Date Result Amount %Rec %Rec Gasoline Range Hydrocarbons (GRO) 05.06.2020 16:11 < 50.0 35 1000 1140 114 1100 110 70-135 4 mg/kg 05.06.2020 16:11 Diesel Range Organics (DRO) 70-135 8 35 < 50.0 1000 1230 123 1140 114 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Flag Date Flag %Rec 05.06.2020 16:11 1-Chlorooctane 92 117 128 70-135 % 05.06.2020 16:11 90 o-Terphenyl 107 101 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number:

3125289

Matrix: Solid

Prep Method: Date Prep: SW8015P 05.06.2020

MB Sample Id: 7702864-1-BLK

Parameter

MBResult

Units

Analysis Date

Motor Oil Range Hydrocarbons (MRO)

< 50.0

mg/kg

05.06.2020 15:51

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

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

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



QC Summary 660710

LT Environmental, Inc.

Remuda 500 Battery

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125289

Parent Sample Id: 660733-001

SW8015P Prep Method: 05.06.2020 Matrix: Soil Date Prep:

MS Sample Id: 660733-001 S MSD Sample Id: 660733-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	< 50.1	1000	1070	107	1040	104	70-135	3	35	mg/kg	05.06.2020 17:12
Diesel Range Organics (DRO)	< 50.1	1000	1140	114	1190	119	70-135	4	35	mg/kg	05.06.2020 17:12

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		71		70-135	%	05.06.2020 17:12
o-Terphenyl	100		76		70-135	%	05.06.2020 17:12

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125244

MB Sample Id: 7702855-1-BLK Matrix: Solid

LCS Sample Id: 7702855-1-BKS

Prep Method:

SW5035A

Flag

Flag

Flag

05.06.2020

Date Prep: LCSD Sample Id: 7702855-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.120	120	0.122	122	70-130	2	35	mg/kg	05.06.2020 14:12
Toluene	< 0.00200	0.100	0.110	110	0.112	112	70-130	2	35	mg/kg	05.06.2020 14:12
Ethylbenzene	< 0.00200	0.100	0.104	104	0.107	107	71-129	3	35	mg/kg	05.06.2020 14:12
m,p-Xylenes	< 0.00400	0.200	0.203	102	0.208	104	70-135	2	35	mg/kg	05.06.2020 14:12
o-Xylene	< 0.00200	0.100	0.102	102	0.105	105	71-133	3	35	mg/kg	05.06.2020 14:12
	MD	MR	τ.	ce i	CS	LOST		ъ т:	mita	Unite	Analysis

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	115		107		108		70-130	%	05.06.2020 14:12
4-Bromofluorobenzene	106		100		99		70-130	%	05.06.2020 14:12

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125244 Parent Sample Id:

660566-004

Matrix: Soil

MS Sample Id: 660566-004 S

SW5035A Prep Method: Date Prep:

05.06.2020

MSD Sample Id: 660566-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00198	0.0992	0.120	121	0.125	124	70-130	4	35	mg/kg	05.06.2020 14:54
Toluene	< 0.00198	0.0992	0.117	118	0.112	111	70-130	4	35	mg/kg	05.06.2020 14:54
Ethylbenzene	< 0.00198	0.0992	0.109	110	0.101	100	71-129	8	35	mg/kg	05.06.2020 14:54
m,p-Xylenes	< 0.00397	0.198	0.211	107	0.195	97	70-135	8	35	mg/kg	05.06.2020 14:54
o-Xylene	< 0.00198	0.0992	0.107	108	0.0990	98	71-133	8	35	mg/kg	05.06.2020 14:54

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		108		70-130	%	05.06.2020 14:54
4-Bromofluorobenzene	102		101		70-130	%	05.06.2020 14:54

dby OCD:	Relinquished by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature)	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 A 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 Ti U Vice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions				f303	F50 Z	5501	Sample Identification	Sample Custody Seals:		Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone: (432) 2	City, State ZIP: Midlan			Project Manager: Dan Moir	Page 52
	for the cost of samples 00 will be applied to ea	Metal(s) to be ana				5	5	5	n Matrix	Yes (No) N/A	No.	(Yes No	4.0	Temp Blank:	Spencer Lo		012920055	Remode 500 B	(432) 236-3849	Midland, TX 79705	3300 North A Street	LT Environmental, Inc.,	oir	MATORIES
90	and shall not assume any respo ach project and a charge of \$5 for Received by: (Signature)	9RCRA lyzed TCLP amples constitutes a				5.5.20 1115	5.5.20 1045	5.5-20 1015	Date Ti Sampled San	Total Containers:	Correction Factor:	+		Yes) No V	Ь		,	Battery				Permian office		Hobbs,NM (
	ge of \$5 for each samp	CRA 13PPM Texas 11 AITCLP / SPLP 6010: 8RCRA				, 1	5	5 11	Time Depth	ainers:	Factor: -0.2	NMOOT	₽	Wet Ice: Yes No	Due Date:		Routine V	Turn Around	Email: slo@ltenv.com, dmoir@ltenv.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Houston,TX (281) 240 Midland,TX (432-70 575-392-7550) Phoe
555	any losses or expenses le submitted to Xenco, t	11 Al Sb As RCRA Sb As from client company				1	1	1 ×	Numb			ntai							com, dmoir@lter	***			fferent) Kyle Littrell	0-4200 Dallas,TX 4-5440) EL Paso, nix,AZ (480-355-0
6 4	nses incurred by too, but not analyz	Ba Be B Cd C Ba Be Cd C		1)	×	×	XX	BTEX ()						N.com	Carlsbad, NM 88220	3104 East Green Street	nergy	ittrell	Dallas,TX (214) 902-0300 San Antoni EL Paso,TX (915)585-3443 Lubbock 480-355-0900) Atlanta,GA (770-449-8
Tompanica by (Ognacio)	the client if such losses are due zed. These terms will be enforce	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn I Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag company to Xenco, its affiliates and subcontractors. It assigns standard to		3														ANALYSIS REQUEST			eet			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 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)
	to circumstances beyond to d unless previously negoti	Pb Mg Mn Mo Ni K No Ni Se Ag TI U																UEST	Deliverables: EDD	Reporting:Level II	State of Project:	Program: UST/PST		
I vereiven by: (Signature)	ated.	g SiC																		Level III ST/UST	Et		Work Order Comments	Work Order No:
Date		02 Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg							Sample Comments	lab, if received by 4:30pm	TAT starts the day recovied							Work Order Notes	Other:	UST RRP Pevel IV	- Cure - Cuperiona			Page of

Received by OCD: 5/19/2020 8:10:30 AM

Certificate of Analysis Summary 660711

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 500 Battery

Project Id: Contact:

Project Location:

012920055

Dan Moir

Date Received in Lab: Tue 05.05.2020 17:02

Report Date: 05.08.2020 12:55

Project Manager: Jessica Kramer

	Lab Id:	660711-0	001	660711-0	02	660711-0	003	660711-0	004	660711-0	005	660711-0	006
Analysis Requested	Field Id:	PH01		PH01A		PH02		PH02A		PH03		PH03A	
Analysis Requested	Depth:	0.5- ft		1- ft		0.5- ft		1- ft		0.5- ft	:	1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	05.05.2020	12:45	05.05.2020	13:55	05.05.2020	12:55	05.05.2020	14:05	05.05.2020	13:05	05.05.2020	14:15
BTEX by EPA 8021B	Extracted:	05.07.2020	09:50	05.07.2020	09:50	05.07.2020	09:50	05.07.2020	09:50	05.06.2020	17:00	05.06.2020	17:00
	Analyzed:	05.07.2020	14:27	05.07.2020	14:48	05.07.2020	13:44	05.07.2020	15:31	05.07.2020	07:18	05.07.2020	07:40
	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	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198
Toluene		< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198
Ethylbenzene		< 0.00202			0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198
m,p-Xylenes		< 0.00404			0.00398	< 0.00399	0.00399	< 0.00402	0.00402	< 0.00399	0.00399	< 0.00397	0.00397
o-Xylene		< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198
Total Xylenes		< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198
Total BTEX		< 0.00202	0.00202	<0.00199 0.00199		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00198	0.00198
Chloride by EPA 300	Extracted:	05.06.2020	14:00	05.06.2020 14:00		05.06.2020	14:00	05.06.2020	14:00	05.06.2020	14:00	05.06.2020	14:00
	Analyzed:	05.06.2020	16:14	05.06.2020	16:31	05.06.2020 16:37		05.06.2020 16:42		05.06.2020	16:48	05.06.2020	16:54
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		204	10.0	160	10.0	180	9.98	143	9.90	227	10.0	227	9.88
TPH by SW8015 Mod	Extracted:	05.06.2020	17:00	05.06.2020	17:00	05.06.2020	17:00	05.06.2020	17:00	05.06.2020	17:00	05.06.2020	17:00
	Analyzed:	05.06.2020	19:15	05.06.2020	19:35	05.06.2020	19:55	05.06.2020	20:15	05.06.2020	20:36	05.06.2020	21:16
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.1	50.1	< 50.2	50.2	<49.8	49.8	<49.8	49.8	<50.1	50.1	<50.2	50.2
Diesel Range Organics (DRO)		<50.1 50.1		< 50.2	50.2	<49.8	49.8	<49.8	49.8	<50.1	50.1	< 50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		< 50.1	50.1	<50.2	50.2	<49.8	49.8	<49.8	49.8	< 50.1	50.1	< 50.2	50.2
Total GRO-DRO		< 50.1	50.1	< 50.2	50.2	<49.8	49.8	<49.8	49.8	< 50.1	50.1	< 50.2	50.2
Total TPH		< 50.1	50.1	< 50.2	50.2	<49.8	49.8	<49.8	49.8	< 50.1	50.1	< 50.2	50.2

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

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

Jessica Kramer

Jessica Kramer Project Manager



Certificate of Analysis Summary 660711

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 500 Battery

Project Id: Contact:

Project Location:

012920055

Dan Moir

Project Manager: Jessica Kramer

	Lab Id:	660711-0	007	660711-0	08	660711-0	009	660711-	010	660711-0	011	660711-0	012
4 7 . 0	Field Id:	PH04	.	PH04 <i>A</i>	\ \	PH05		PH05A		PH06		PH06A	
Analysis Requested	Depth:	0.5- ft	:	1- ft		0.5- ft		1- ft		0.5- ft		1- ft	
	Matrix:	SOIL	,	SOIL		SOIL		SOIL	,	SOIL		SOIL	
	Sampled:	05.05.2020	13:15	05.05.2020	14:25	05.05.2020	13:30	05.05.2020	13:35	05.05.2020	13:40	05.05.2020	13:45
BTEX by EPA 8021B	Extracted:	05.06.2020	17:00	05.06.2020	17:00	05.06.2020	17:00	05.06.2020	17:00	05.06.2020	17:00	05.06.2020	17:00
	Analyzed:	05.07.2020	08:01	05.07.2020	08:23	05.07.2020	08:44	05.07.2020	09:05	05.07.2020	09:27	05.07.2020	09:48
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00201	0.00201
Toluene		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00201	0.00201
Ethylbenzene		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00201	0.00201
m,p-Xylenes		< 0.00402	0.00402	< 0.00404	0.00404	< 0.00404	0.00404	< 0.00402	0.00402	< 0.00400	0.00400	< 0.00402	0.00402
o-Xylene		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00201	0.00201
Total Xylenes		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00201	0.00201
Total BTEX		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00201	0.00201
Chloride by EPA 300	Extracted:	05.06.2020	14:00	05.06.2020	14:00	05.06.2020	14:00	05.06.2020	14:00	05.06.2020	14:00	05.06.2020	14:00
	Analyzed:	05.06.2020	17:00	05.06.2020	17:05	05.06.2020	17:23	05.06.2020	17:29	05.06.2020	17:46	05.06.2020	17:52
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		114	9.92	180	9.94	168	10.1	139	10.0	191	10.0	110	10.1
TPH by SW8015 Mod	Extracted:	05.06.2020	17:00	05.06.2020	17:00	05.06.2020	17:00	05.06.2020	17:00	05.06.2020	17:00	05.06.2020	17:00
	Analyzed:	05.06.2020	21:36	05.06.2020	21:57	05.06.2020	22:17	05.06.2020	22:37	05.06.2020	22:58	05.06.2020	23:18
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	< 50.0	50.0	< 50.3	50.3	<50.3	50.3	< 50.2	50.2	<49.8	49.8
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	< 50.3	50.3	<50.3	50.3	< 50.2	50.2	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	< 50.3	50.3	<50.3	50.3	< 50.2	50.2	<49.8	49.8
Total GRO-DRO		<49.9	49.9	<50.0	50.0	< 50.3	50.3	<50.3	50.3	<50.2	50.2	<49.8	49.8
Total TPH		<49.9	49.9	< 50.0	50.0	< 50.3	50.3	<50.3	50.3	< 50.2	50.2	<49.8	49.8

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

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

Jessica Vramer

Date Received in Lab: Tue 05.05.2020 17:02

Report Date: 05.08.2020 12:55

Jessica Kramer Project Manager



Analytical Report 660711

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda 500 Battery 012920055 05.08.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.08.2020

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

Reference: XENCO Report No(s): 660711

Remuda 500 Battery Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 660711. 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. 660711 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

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 660711

LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	05.05.2020 12:45	0.5 ft	660711-001
PH01A	S	05.05.2020 13:55	1 ft	660711-002
PH02	S	05.05.2020 12:55	0.5 ft	660711-003
PH02A	S	05.05.2020 14:05	1 ft	660711-004
PH03	S	05.05.2020 13:05	0.5 ft	660711-005
PH03A	S	05.05.2020 14:15	1 ft	660711-006
PH04	S	05.05.2020 13:15	0.5 ft	660711-007
PH04A	S	05.05.2020 14:25	1 ft	660711-008
PH05	S	05.05.2020 13:30	0.5 ft	660711-009
PH05A	S	05.05.2020 13:35	1 ft	660711-010
PH06	S	05.05.2020 13:40	0.5 ft	660711-011
PH06A	S	05.05.2020 13:45	1 ft	660711-012

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Remuda 500 Battery

 Project ID:
 012920055
 Report Date:
 05.08.2020

 Work Order Number(s):
 660711
 Date Received:
 05.05.2020

 $\label{eq:Sample receipt non conformances and comments:} \\$

Sample receipt non conformances and comments per sample:

None



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH01

Matrix: Soil

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-001

Date Collected: 05.05.2020 12:45

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

Date Prep:

% Moisture:

Tech: MA

MAB

05.06.2020 14:00

Basis:

Wet Weight

Seq Number: 3125246

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	204	10.0	mg/kg	05.06.2020 16:14		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

DTH

DTH

Tech: Analyst:

Date Prep:

05.06.2020 17:00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	05.06.2020 19:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	05.06.2020 19:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	05.06.2020 19:15	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	05.06.2020 19:15	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	05.06.2020 19:15	U	1
Surrogate	C	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	94	%	70-135	05.06.2020 19:15
o-Terphenyl	84-15-1	90	%	70-135	05.06.2020 19:15



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH01

Matrix: Soil

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-001

Date Collected: 05.05.2020 12:45

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB MAB

Date Prep: 05.07.2020 09:50

% Moisture:

Basis:

Wet Weight

Analyst: MAB Seq Number: 3125400

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	05.07.2020 14:27	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	05.07.2020 14:27	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	05.07.2020 14:27	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	05.07.2020 14:27	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	05.07.2020 14:27	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	05.07.2020 14:27	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	05.07.2020 14:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	113	%	70-130	05.07.2020 14:27		
4-Bromofluorobenzene		460-00-4	107	%	70-130	05.07.2020 14:27		



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH01A

Matrix: Soil Date Received:05.05.2020 17:02

Lab Sample Id: 660711-002

Date Collected: 05.05.2020 13:55

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB

MAB

Date Prep: 05.06.2020 14:00 Basis:

Wet Weight

Seq Number: 3125246

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	160	10.0	mg/kg	05.06.2020 16:31		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep:

05.06.2020 17:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	05.06.2020 19:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	05.06.2020 19:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	05.06.2020 19:35	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	05.06.2020 19:35	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	05.06.2020 19:35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH01A Matrix:

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-002

Soil Date Collected: 05.05.2020 13:55

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: MAB MAB

Date Prep:

05.07.2020 09:50

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	05.07.2020 14:48	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	05.07.2020 14:48	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	05.07.2020 14:48	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	05.07.2020 14:48	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	05.07.2020 14:48	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	05.07.2020 14:48	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	05.07.2020 14:48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	113	%	70-130	05.07.2020 14:48		
4-Bromofluorobenzene		460-00-4	107	%	70-130	05.07.2020 14:48		



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH02

Matrix: Soil

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-003

Date Collected: 05.05.2020 12:55

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB MAB

Date Prep:

05.06.2020 14:00 Basis:

Wet Weight

Seq Number: 3125246

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	180	9.98	mg/kg	05.06.2020 16:37		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: Analyst: DTH

DTH

Date Prep:

05.06.2020 17:00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	05.06.2020 19:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	05.06.2020 19:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	05.06.2020 19:55	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	05.06.2020 19:55	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	05.06.2020 19:55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	05.06.2020 19:55		
o-Terphenyl		84-15-1	93	%	70-135	05.06.2020 19:55		



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: **PH02** Matrix:

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-003

Soil Date Collected: 05.05.2020 12:55

05.07.2020 09:50

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB MAB

Date Prep:

% Moisture: Basis:

Wet Weight

Analyst: Seq Number: 3125400

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200	mg/kg	05.07.2020 13:44	U	1
Toluene	108-88-3	< 0.00200	0.00200	mg/kg	05.07.2020 13:44	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	mg/kg	05.07.2020 13:44	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	mg/kg	05.07.2020 13:44	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	mg/kg	05.07.2020 13:44	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200	mg/kg	05.07.2020 13:44	U	1
Total BTEX		< 0.00200	0.00200	mg/kg	05.07.2020 13:44	U	1
C	0	- N b)/ D 1	T	A I	E1	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	05.07.2020 13:44	
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.07.2020 13:44	



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH02A

Matrix: Soil

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-004

Date Collected: 05.05.2020 14:05

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB MAB

Date Prep:

05.06.2020 14:00

Basis:

Wet Weight

Seq Number: 3125246

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	143	9.90	mg/kg	05.06.2020 16:42		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

DTH DTH

Tech: DT

Analyst:

Date Prep: 05.06.2020 17:00

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	05.06.2020 20:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	05.06.2020 20:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	05.06.2020 20:15	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	05.06.2020 20:15	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	05.06.2020 20:15	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	94	%	70-135	05.06.2020 20:15
o-Terphenyl	84-15-1	92	%	70-135	05.06.2020 20:15



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH02A

Matrix: Soil

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-004

Date Collected: 05.05.2020 14:05

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

Date Prep: 05.07.2020 09:50

% Moisture:

Basis:

Wet Weight

Analyst: MAB

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201	mg/kg	05.07.2020 15:31	U	1
Toluene	108-88-3	< 0.00201	0.00201	mg/kg	05.07.2020 15:31	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	mg/kg	05.07.2020 15:31	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	mg/kg	05.07.2020 15:31	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	mg/kg	05.07.2020 15:31	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201	mg/kg	05.07.2020 15:31	U	1
Total BTEX		< 0.00201	0.00201	mg/kg	05.07.2020 15:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	05.07.2020 15:31	
4-Bromofluorobenzene	460-00-4	105	%	70-130	05.07.2020 15:31	



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH03

Matrix: Soil

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-005

Date Collected: 05.05.2020 13:05

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Wet Weight

Analyst:

MAB

Date Prep:

05.06.2020 14:00

Basis:

Seq Number: 3125246

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	227	10.0	mg/kg	05.06.2020 16:48		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep:

05.06.2020 17:00

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	05.06.2020 20:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	05.06.2020 20:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	05.06.2020 20:36	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	05.06.2020 20:36	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	05.06.2020 20:36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH03

PH03

Matrix: Soil

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-005

Date Collected: 05.05.2020 13:05

Sample Depth: 0.5 ft

05.07.2020 07:18

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: MAB

MAB

Date Prep: 05.06.2020 17:00

Basis:

70-130

Wet Weight

Seq Number: 3125297

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	05.07.2020 07:18	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	05.07.2020 07:18	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	05.07.2020 07:18	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	05.07.2020 07:18	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	05.07.2020 07:18	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	05.07.2020 07:18	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	05.07.2020 07:18	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	5	40-36-3	113	%	70-130	05.07.2020 07:18		

104

460-00-4



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH03A Matrix:

Date Prep:

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-006

Soil Date Collected: 05.05.2020 14:15

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: MAB

MAB

05.06.2020 14:00

% Moisture: Basis:

Wet Weight

Seq Number: 3125246

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	227	9.88	mg/kg	05.06.2020 16:54		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep:

05.06.2020 17:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	05.06.2020 21:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	05.06.2020 21:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	05.06.2020 21:16	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	05.06.2020 21:16	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	05.06.2020 21:16	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	97	%	70-135	05.06.2020 21:16
o-Terphenyl	84-15-1	94	%	70-135	05.06.2020 21:16



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH03A

Matrix: Soil

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-006

Date Collected: 05.05.2020 14:15

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

05.06.2020 17:00

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	05.07.2020 07:40	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	05.07.2020 07:40	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	05.07.2020 07:40	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	05.07.2020 07:40	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	05.07.2020 07:40	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	05.07.2020 07:40	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	05.07.2020 07:40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	112	%	70-130	05.07.2020 07:40		
4-Bromofluorobenzene		460-00-4	106	%	70-130	05.07.2020 07:40		



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: **PH04**

Matrix: Soil Date Received:05.05.2020 17:02

Lab Sample Id: 660711-007

Date Collected: 05.05.2020 13:15

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

Analyst:

MAB

Date Prep:

05.06.2020 14:00

% Moisture: Basis:

Wet Weight

Seq Number: 3125246

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	114	9.92	mg/kg	05.06.2020 17:00		1

Analytical Method: TPH by SW8015 Mod

Tech:

DTH

Analyst: DTH

Date Prep:

05.06.2020 17:00

% Moisture:

Basis:

Prep Method: SW8015P

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	05.06.2020 21:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	05.06.2020 21:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	05.06.2020 21:36	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	05.06.2020 21:36	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	05.06.2020 21:36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	97	%	70-135	05.06.2020 21:36
o-Terphenyl	84-15-1	95	%	70-135	05.06.2020 21:36



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: **PH04** Matrix:

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-007

Soil Date Collected: 05.05.2020 13:15

05.06.2020 17:00

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech:

MAB

Basis:

Wet Weight

MAB Analyst:

Date Prep:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	05.07.2020 08:01	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	05.07.2020 08:01	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	05.07.2020 08:01	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	05.07.2020 08:01	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	05.07.2020 08:01	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	05.07.2020 08:01	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	05.07.2020 08:01	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Fla
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.07.2020 08:01	
4-Bromofluorobenzene	460-00-4	109	%	70-130	05.07.2020 08:01	



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH04A

Matrix: Soil Date Received:05.05.2020 17:02

Lab Sample Id: 660711-008

Date Collected: 05.05.2020 14:25

Sample Depth: 1 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MAB

Analyst:

MAB

Date Prep:

05.06.2020 14:00

Basis:

% Moisture:

Wet Weight

Seq Number: 3125246

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	180	9.94	mg/kg	05.06.2020 17:05		1

Analytical Method: TPH by SW8015 Mod

Tech:

DTH

Analyst: DTH

Seq Number: 3125289

Date Prep:

05.06.2020 17:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Cas Number **Parameter** Result RLUnits **Analysis Date** Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 < 50.0 50.0 05.06.2020 21:57 U mg/kg Diesel Range Organics (DRO) C10C28DRO 50.0 05.06.2020 21:57 < 50.0 U 1 mg/kg Motor Oil Range Hydrocarbons (MRO) PHCG2835 50.0 05.06.2020 21:57 U < 50.0 mg/kg 1 Total GRO-DRO PHC628 < 50.0 50.0 mg/kg 05.06.2020 21:57 U Total TPH PHC635 50.0 05.06.2020 21:57 U < 50.0 1 mg/kg

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	05.06.2020 21:57	
o-Terphenyl	84-15-1	89	%	70-135	05.06.2020 21:57	



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH04A Matrix:

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-008

Soil Date Collected: 05.05.2020 14:25

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

% Moisture:

MAB Analyst:

Date Prep:

05.06.2020 17:00

Basis:

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	05.07.2020 08:23	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	05.07.2020 08:23	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	05.07.2020 08:23	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	05.07.2020 08:23	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	05.07.2020 08:23	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	05.07.2020 08:23	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	05.07.2020 08:23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	115	%	70-130	05.07.2020 08:23		
4-Bromofluorobenzene		460-00-4	108	%	70-130	05.07.2020 08:23		



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH05

Matrix:

Soil

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-009

Date Collected: 05.05.2020 13:30

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst:

Tech:

MAB MAB

Date Prep:

Date Prep:

05.06.2020 14:00

Basis:

Wet Weight

Seq Number: 3125246

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	168	10.1	mg/kg	05.06.2020 17:23		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Basis:

DTH

05.06.2020 17:00

Wet Weight

Analyst: DTH
Seq Number: 3125289

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	05.06.2020 22:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	05.06.2020 22:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	05.06.2020 22:17	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	05.06.2020 22:17	U	1
Total TPH	PHC635	<50.3	50.3		mg/kg	05.06.2020 22:17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	94	%	70-135	05.06.2020 22:17
o-Terphenyl	84-15-1	92	%	70-135	05.06.2020 22:17



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: **PH05**

Matrix: Soil Date Received:05.05.2020 17:02

Lab Sample Id: 660711-009

Date Collected: 05.05.2020 13:30

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech:

MAB MAB

Date Prep:

05.06.2020 17:00

Basis:

Wet Weight

Analyst: Seq Number: 3125297

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	05.07.2020 08:44	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	05.07.2020 08:44	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	05.07.2020 08:44	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	05.07.2020 08:44	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	05.07.2020 08:44	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	05.07.2020 08:44	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	05.07.2020 08:44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	70-130	05.07.2020 08:44		
1,4-Difluorobenzene		540-36-3	113	%	70-130	05.07.2020 08:44		



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH05A

Matrix: Soil Date Received:05.05.2020 17:02

Lab Sample Id: 660711-010

Date Collected: 05.05.2020 13:35

Sample Depth: 1 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

% Moisture:

Tech: Analyst:

MAB

Date Prep: 05.06.2020 14:00 Basis:

Wet Weight

Seq Number: 3125246

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	139	10.0	mg/kg	05.06.2020 17:29		1

Analytical Method: TPH by SW8015 Mod

DTH

Tech: Analyst:

DTH

Date Prep:

05.06.2020 17:00

Prep Method: SW8015P

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	05.06.2020 22:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	05.06.2020 22:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	05.06.2020 22:37	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	05.06.2020 22:37	U	1
Total TPH	PHC635	<50.3	50.3		mg/kg	05.06.2020 22:37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH05A Matrix:

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-010

Soil Date Collected: 05.05.2020 13:35

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

% Moisture:

MAB Analyst:

Date Prep:

05.06.2020 17:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	05.07.2020 09:05	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	05.07.2020 09:05	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	05.07.2020 09:05	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	05.07.2020 09:05	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	05.07.2020 09:05	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	05.07.2020 09:05	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	05.07.2020 09:05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.07.2020 09:05		
4-Bromofluorobenzene		460-00-4	102	%	70-130	05.07.2020 09:05		



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: **PH06** Matrix:

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-011

Soil Date Collected: 05.05.2020 13:40

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

MAB

MAB Analyst:

Date Prep: 05.06.2020 14:00 Basis: Wet Weight

Seq Number: 3125246

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	191	10.0	mg/kg	05.06.2020 17:46		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

70-135

Analyst: DTH

o-Terphenyl

05.06.2020 17:00 Date Prep:

Basis: Wet Weight

05.06.2020 22:58

Seq Number: 3125289

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	05.06.2020 22:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	05.06.2020 22:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	05.06.2020 22:58	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	05.06.2020 22:58	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	05.06.2020 22:58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	05.06.2020 22:58		

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LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH06

Matrix:

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-011

Matrix: Soil
Date Collected: 05.05.2020 13:40

Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A % Moisture:

Tech: Analyst: MAB MAB

Date Prep:

05.06.2020 17:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	05.07.2020 09:27	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	05.07.2020 09:27	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	05.07.2020 09:27	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	05.07.2020 09:27	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	05.07.2020 09:27	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	05.07.2020 09:27	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	05.07.2020 09:27	U	1
Surrogate	Ca	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	05.07.2020 09:27	
1,4-Difluorobenzene	540-36-3	114	%	70-130	05.07.2020 09:27	



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH06A

Seq Number: 3125246

Matrix: Soil

Date Received:05.05.2020 17:02

Lab Sample Id: 660711-012

Date Collected: 05.05.2020 13:45

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

MAB

_ .

Wet Weight

Analyst:

MAB

Date Prep:

05.06.2020 14:00

Basis:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	110	10.1	mg/kg	05.06.2020 17:52		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: D'

DTH

% Moisture:

Analyst: DTH

Date Prep: 05.06.2020 17:00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	05.06.2020 23:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	05.06.2020 23:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	05.06.2020 23:18	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	05.06.2020 23:18	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	05.06.2020 23:18	U	1
Surrogate	C	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	93	%	70-135	05.06.2020 23:18
o-Terphenyl	84-15-1	92	%	70-135	05.06.2020 23:18



LT Environmental, Inc., Arvada, CO

Remuda 500 Battery

Sample Id: PH06A Matrix: Soil Date Received:05.05.2020 17:02

Lab Sample Id: 660711-012

Date Collected: 05.05.2020 13:45

05.06.2020 17:00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech:

MAB

% Moisture:

MAB Analyst:

Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	05.07.2020 09:48	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	05.07.2020 09:48	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	05.07.2020 09:48	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	05.07.2020 09:48	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	05.07.2020 09:48	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	05.07.2020 09:48	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	05.07.2020 09:48	U	1
Surrogate	C	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1.4-Difluorobenzene	5	40-36-3	113	0/2	70-130	05 07 2020 09:48		

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date]
1,4-Difluorobenzene	540-36-3	113	%	70-130	05.07.2020 09:48	
4-Bromofluorobenzene	460-00-4	106	%	70-130	05.07.2020 09:48	



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.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- Analyte was not detected.
- 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.

ND Not Detected.

RLReporting 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

DLMethod 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

Flag

Flag

Flag

QC Summary 660711



LT Environmental, Inc.

Remuda 500 Battery

Analytical Method: Chloride by EPA 300

Seq Number: 3125246

7702827-1-BLK

Matrix: Solid

LCS Sample Id:

7702827-1-BKS

E300P Prep Method:

LCSD Sample Id:

Date Prep: 05.06.2020

7702827-1-BSD

LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date

Chloride <10.0 250 251 100 250 90-110 0 20 05.06.2020 15:33 100 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: Parent Sample Id:

MB Sample Id:

3125246

Matrix: Soil

Prep Method: Date Prep: 05.06.2020

E300P

660711-008

MS Sample Id: 660711-008 S MSD Sample Id: 660711-008 SD

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec Result %Rec Limit Date

20 05.06.2020 17:11 Chloride 180 199 369 95 369 95 90-110 0 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

3125246

Matrix: Soil

Prep Method:

E300P

660732-001

Date Prep: 05.06.2020

MS Sample Id: 660732-001 S MSD Sample Id: 660732-001 SD Parent Sample Id: **RPD Parent** MS MS %RPD Units Limite Analysis

Spike MSD **MSD** Flag **Parameter** Result Result %Rec Limit Date Amount Result %Rec Chloride 0 20 05.06.2020 15:51 475 200 661 93 659 92 90-110 mg/kg

Analytical Method: TPH by SW8015 Mod

Seg Number:

3125289

Matrix: Solid

Prep Method: Date Prep: SW8015P

05.06.2020

MB Sample Id: 7702864-1-BLK LCS Sample Id: 7702864-1-BKS LCSD Sample Id: 7702864-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis **Parameter** Result Result Limit Date Result Amount %Rec %Rec Gasoline Range Hydrocarbons (GRO) 05.06.2020 16:11 < 50.0 35 1000 1140 114 1100 110 70-135 4 mg/kg 05.06.2020 16:11 Diesel Range Organics (DRO) 70-135 8 35 < 50.0 1000 1230 123 1140 114 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Flag Date Flag %Rec 05.06.2020 16:11 1-Chlorooctane 92 117 128 70-135 % 05.06.2020 16:11 90 o-Terphenyl 107 101 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number:

3125289

Matrix: Solid

Prep Method:

SW8015P

Date Prep: 05.06.2020

MB Sample Id: 7702864-1-BLK

Parameter

MBResult

Units

Analysis Date

Motor Oil Range Hydrocarbons (MRO) < 50.0

mg/kg

05.06.2020 15:51

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

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

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

LCS = Laboratory Control Sample = Parent Result

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

Flag



Parent Sample Id:

QC Summary 660711

LT Environmental, Inc.

Remuda 500 Battery

660733-001 S

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125289

660733-001

SW8015P Prep Method:

Date Prep: 05.06.2020

MSD Sample Id: 660733-001 SD

MS %RPD RPD **Parent** Spike MS MSD MSD Limits Units Analysis **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) < 50.1 1000 1070 107 1040 3 35 05.06.2020 17:12 104 70-135 mg/kg 05.06.2020 17:12 < 50.1 70-135 35 mg/kg Diesel Range Organics (DRO) 1000 1140 114 1190 4 119

Matrix: Soil

MS Sample Id:

MS **MSD** Limits Units Analysis MS **MSD Surrogate** %Rec Flag Flag Date %Rec 05.06.2020 17:12 1-Chlorooctane 111 71 70-135 % 100 76 05.06.2020 17:12 o-Terphenyl 70-135 %

Analytical Method: BTEX by EPA 8021B

3125297 Seq Number:

MB Sample Id:

7702857-1-BLK

Matrix: Solid

LCS Sample Id: 7702857-1-BKS

Prep Method:

SW5035A

Date Prep: 05.06.2020

LCSD Sample Id: 7702857-1-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	0.118	118	0.117	117	70-130	1	35	mg/kg	05.07.2020 00:32	
Toluene	< 0.00200	0.100	0.107	107	0.105	105	70-130	2	35	mg/kg	05.07.2020 00:32	
Ethylbenzene	< 0.00200	0.100	0.0994	99	0.0983	98	71-129	1	35	mg/kg	05.07.2020 00:32	
m,p-Xylenes	< 0.00400	0.200	0.193	97	0.191	96	70-135	1	35	mg/kg	05.07.2020 00:32	
o-Xylene	< 0.00200	0.100	0.101	101	0.0988	99	71-133	2	35	mg/kg	05.07.2020 00:32	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI		_	imits	Units	Analysis Date	

05.07.2020 00:32 1,4-Difluorobenzene 114 109 109 70-130 % 4-Bromofluorobenzene 100 99 70-130 % 05.07.2020 00:32 106

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125400

MB Sample Id:

7702858-1-BLK

Matrix: Solid

LCS Sample Id: 7702858-1-BKS

SW5035A Prep Method: Date Prep:

05.07.2020

Flag

LCSD Sample Id: 7702858-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	F
Benzene	< 0.00200	0.100	0.114	114	0.115	115	70-130	1	35	mg/kg	05.07.2020 14:05	
Toluene	< 0.00200	0.100	0.105	105	0.103	103	70-130	2	35	mg/kg	05.07.2020 14:05	
Ethylbenzene	< 0.00200	0.100	0.0974	97	0.0962	96	71-129	1	35	mg/kg	05.07.2020 14:05	
m,p-Xylenes	< 0.00400	0.200	0.190	95	0.186	93	70-135	2	35	mg/kg	05.07.2020 14:05	
o-Xylene	< 0.00200	0.100	0.0965	97	0.0964	96	71-133	0	35	mg/kg	05.07.2020 14:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	115		109		108		70-130	%	05.07.2020 14:05
4-Bromofluorobenzene	107		100		98		70-130	%	05.07.2020 14:05

E = MSD/LCSD Result

Flag

Flag

SW5035A

SW5035A

Prep Method:

Prep Method:



QC Summary 660711

LT Environmental, Inc.

Remuda 500 Battery

Analytical Method: BTEX by EPA 8021B

 Seq Number:
 3125297
 Matrix:
 Soil
 Date Prep:
 05.06.2020

Parent Sample Id: 660708-001 MS Sample Id: 660708-001 S MSD Sample Id: 660708-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00199	0.0994	0.120	121	0.117	118	70-130	3	35	mg/kg	05.07.2020 10:10
Toluene	< 0.00199	0.0994	0.108	109	0.106	107	70-130	2	35	mg/kg	05.07.2020 10:10
Ethylbenzene	< 0.00199	0.0994	0.101	102	0.0984	99	71-129	3	35	mg/kg	05.07.2020 10:10
m,p-Xylenes	< 0.00398	0.199	0.195	98	0.191	96	70-135	2	35	mg/kg	05.07.2020 10:10
o-Xylene	< 0.00199	0.0994	0.100	101	0.0984	99	71-133	2	35	mg/kg	05.07.2020 10:10
			N	18	MS	MST	MS	D Li	imits	Units	Analysis

MSD **Surrogate** %Rec Flag %Rec Flag Date 05.07.2020 10:10 1,4-Difluorobenzene 109 108 70-130 % 05.07.2020 10:10 4-Bromofluorobenzene 98 100 70-130 %

Analytical Method: BTEX by EPA 8021B

 Seq Number:
 3125400
 Matrix:
 Soil
 Date Prep:
 05.07.2020

 Parent Sample Id:
 660711-001
 MS Sample Id:
 660711-001 S
 MSD Sample Id:
 660711-001 SD

Parameter	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis
1 at afficter	Result	Amount	Result	%Rec	Result	%Rec			Limit		Date
Benzene	< 0.00202	0.101	0.114	113	0.112	111	70-130	2	35	mg/kg	05.07.2020 12:40
Toluene	< 0.00202	0.101	0.0994	98	0.0954	94	70-130	4	35	mg/kg	05.07.2020 12:40
Ethylbenzene	< 0.00202	0.101	0.0886	88	0.0843	83	71-129	5	35	mg/kg	05.07.2020 12:40
m,p-Xylenes	< 0.00404	0.202	0.167	83	0.162	80	70-135	3	35	mg/kg	05.07.2020 12:40
o-Xylene	< 0.00202	0.101	0.0881	87	0.0842	83	71-133	5	35	mg/kg	05.07.2020 12:40

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		110		70-130	%	05.07.2020 12:40
4-Bromofluorobenzene	101		103		70-130	%	05.07.2020 12:40

ABORATORIES ABORATORIES

Phone:

(432) 236-3849 Midland, TX 79705

Email:

slo@ltenv.com, dmoir@ltenv.com

Deliverables: EDD

ADaPT |

Reporting:Level II Level III ST/UST

RRP

Bevel IV

Final 1.000

Program: UST/PST □ RP □ Brownfields □ RC

□uperfund

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Page

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Work Order Comments

State of Project:

City, State ZIP:

Carlsbad, NM 88220 3104 East Green Street Company Name: Bill to: (if different)

XTO Energy Kyle Littrell

Address:

Address: City, State ZIP:

3300 North A Street

LT Environmental, Inc., Permian office

Company Name:

Dan Moir

Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

Total 200.7 (5010 200.8 Consideration Continue Spencer Lo Date Routine Spencer Lo Date Rush: Rush:				
Committee Comm	/			
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by: (\$	11			-
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e Ag titons by: (\$	1.	+	4	6
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 2: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions nco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Received by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Received by: (Signature)	111	≥∥∣	5 B2 B2	
rice. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control neco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Received by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature)	LP 6010: 8R	CRA Sb A	As Ba Be	Be Cd C
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Received by OCD: 5/19/2028 8:10:30 AM

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G	
11	

Phone:

City, State ZIP:

Midland, TX 79705 3300 North A Street

Email: slo@ltenv.com, dmoir@ltenv.com

Deliverables: EDD

ADaPT

Reporting:Level II Level III ST/UST

RRP

Bevel IV

Program: UST/PST □ RP □ Brownfields □ RC

□uperfund [

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Page

2

of

Work Order Comments

State of Project:

Carlsbad, NM 88220

3104 East Green Street

Address: City, State ZIP:

Company Name: Bill to: (if different)

XTO Energy

Kyle Littrell

Company Name: ddress:

LT Environmental, Inc., Permian office

Dan Moir

	Page 88 of 96
Project Manager:	8

Chain of Custody

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

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

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nd conditions and the control gotiated.	ances beyo eviously ne	ervice. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control enco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	losses or expenses incurred lubmitted to Xenco, but not ana	assume any responsibility for any a charge of \$5 for each sample s	only for the cost of samples and shall not f \$75.00 will be applied to each project an	ervice. Xenco will be liable anco. A minimum charge
1631 / 245.1 / 7470 / 7471 : Hg	Ag TI U	Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	RA Sb As Ba Be C	Hutos a yalid purchase order from the	nent and relinquishment of samples const	e: Signature of this docu
Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn	in Mo	Cd Ca Cr Co Cu Fe Pb Mg Mn Mo	Sb As Ba Be	8RCRA 13PPM Texas 11	Circle Method(s) and Metal(s) to be analyzed	Circle Method(s) a
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ian, il laceived by 4. subili			I (EF	Time	cation Matrix Date	Sample Identification
TAT starts the day recevied by the			_	Total Containers:	Yes No N/A Tot	sample Custody Seals:
)15))=80	Correction Factor:	Yes No N/A Corr	Cooler Custody Seals:
)21)		Xes No	Received Intact:
				Thermometer ID	00 004	Temperature (°C):
			S	Wet-Ice: Yes No	Temp Blank: Yes No	SAMPLE RECEIPT
				Due Date:	Spencer Lo	Sampler's Name:
						P.O. Number:
	-			Routine \A	0/29 20055	Project Number:
		ANALYSIS REQUEST		Turn Around	Kemuda 500 Battery	Project Name:

Received by OCD: 5/19/2020 8:10:30 AM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 05.05.2020 05.02.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 660711

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 contain	er/ 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	ed/ received?	Yes	
#10 Chain of Custody agrees with sample lab	pels/matrix?	Yes	
#11 Container label(s) legible and intact?	•	Yes	
#12 Samples in proper container/ bottle?	•	Yes	Samples recieved in bulk containers.
#13 Samples properly preserved?	•	Yes	
#14 Sample container(s) intact?	•	Yes	
#15 Sufficient sample amount for indicated te	est(s)?	Yes	
#16 All samples received within hold time?	•	Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headspa	ce?	N/A	

* Must be completed for	after-hours deliver	v of samples prior t	o placing in the	refrigerator
Must be combleted for	alter-mours acriver	V OI SAIIIDIGS DITOI I	o biacilia ili tile	i eli idei atoi

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: <u>05.06.2020</u>

Checklist reviewed by:

Of promoco

lessica Kramer

Date: 05.08.2020



0	h F	7	j	LT Envi 508 Wes Carlsbad, N	ronmenta at Stevens New Mexic	al, Inc. Street to 88220)	BH or PH Name: PHO1 Site Name: Remoda 500 Battery
0	proud m	ember						RP or Incident Number: LTE Job Number: 0129 20055
		LITH	01.00	GIC / SOI	L SAMPI	LING LO	OG.	Logged By: 56 Method: Trackline
Lat/Lo	ng:	***	720	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Field Scree		,,,	Hole Diameter: Total Depth:
					HACH Ch	loride strips	s, PID	- 1/
Comm	ents:	TO	0	11				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bas)	USCS	
0	268	0.0	2	PHOIA	.5 -	0	SP Sm	Sand, Brown, no odor, no stain, m-f, poorly graded, some aliche
						2		Toel'
					-	3		
						4		
						5	÷	
						6		
						7		
						8		
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						10		
						11		
						12		

	HE	7		LT Envi	ronmenta t Stevens	al, Inc.			BH or PH Name:	Date: 5.5.20
0	proud m	ember	(508 Wes Carlsbad, N	lew Mexic	88220)		Site Name: Remudo	500 Battery
0	f WSP	ember							RP or Incident Number: LTE Job Number: 012	07 1055
		LITH	OLOG	GIC / SOII	SAMP	LING LO)G		Logged By: 52	Method: Track he
Lat/Lo	ng:				Field Scre		-		Hole Diameter:	Total Depth:
Comme					HACH Ch	loride strips	s, PID		_	1'
Comm	ents:	TO @	1'							
Moisture Content		Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)				thology/Remarks
D D	<186	0.3	2	PHO2A	0.5	0	5P 5m	Sand Poo		odor, no Stain, m-6, some caliche
		0,1	2	711027		2			TO @ 1'	
					-	3				
					-	4				
					-	5				
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					-	10				
					-	11				
						12				

0	A proud m	TRUE E WYSCHAR		LT Envii 508 Wesi Carlsbad, N	t Stevens ew Mexic	Street to 88220		BH or PH Name: PHO3 Site Name: Remuda Soo Battery RP or Incident Number: LTE Job Number: 0119 200 55
		LITH	OLOC	GIC / SOII			OG	Logged By: 52 Method: Track hoe
Lat/Lo	ong:				Field Scree HACH Ch		PID	Hole Diameter: Total Depth:
Comm	nents:		TO	011			,	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
9	168 320	0.1	2 2	PHO3 PHO3A	0.5	0	SP Sm	0-1 Sand, Brown, no odor, no stain, m-f, yourly graded: some catiche TO e!
						2 3 4 5 5 6 7 7 8 9 10 11 11 12		To e!

	b E	7		LT Envi 508 Wes Carlsbad, N	ronmenta t Stevens	al, Inc.		BH or PH Name: Date:	. 20
C			(Carlsbad, N	lew Mexic	88220)	Site Name: Remode 500 Battery	
4	proud m	ember						RP or Incident Number:	
(2	W. (510 St. 16)	LITII	01.00	CIC /COU	CAME	TNOT	0.0	LTE Job Number: 01 29 200 55	
Lat/Lo	ing.	LITH	OLOC	GIC / SOII	Field Scree		OG .	Logged By: 5L Method: 77 Hole Diameter: Total Depth:	rackhoe
Lavio	nig.				HACH Ch		s, PID	Hole Diameter: Total Depth:	
Comm	ents:	TO	01'						
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)		Lithology/Remarks	
0	186	0.2	2 2	PHO4A	0.5	0	SP Sm		
0	224	0.0	4	PHOYA		2 3 4 5 6 7 7 8 8 9 9 10 10 11		TO CI'	
					+	12			

Lat/Lo:		UNIVERSITY NO. 2009		LT Envii 508 Wes Carlsbad, N	L SAMP	Street co 88220	OG	BH or PH Name: PHOS Site Name: Remoda 500 Baffer y RP or Incident Number: LTE Job Number: 012920055 Logged By: SL Method: Trackhoe Hole Diameter: Total Depth: 1
Comm	ents.			TO e	1'			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D D	520 41%	0.0	2 2	PH05A	015	0	SP SM	sand, Brown, no odor, no stain, m-f, poorly graded, some calibe
						2 3 4 5 5 6 6 7 7 8 8 9 9 10 11 11 12		TO el'

	proud m	ember		LT Envi 508 Wes Carlsbad, N	vironmental, Inc. est Stevens Street New Mexico 88220			BH or PH Name: PHO6 Site Name: Rem v da RP or Incident Number:			
LITHOLOGIC / SOIL SAMPLING LOG									LTE Job Number: 0129 20055		
Lat/Long: Field Screening:							Logged By: SU Hole Diameter:	Method: Track hise Total Depth:			
Comments: HACH Chloride strips, PID								/ ,			
			1	pel'							
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lith	nology/Remarks		
0	268	p.1	N	PHO6A	0.5	0	SP sm	0-1 Sand, Brown, no od. graded, some	Por, no stain, m-f, poorly caliché		
В	001	0.0	2	PHOGH	-	-		To	11		
						2 3 4 5 5 6 7 8 9 10 11 12					