District I 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 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	NRM2016049766
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

## Location of Release Source

Latitude \_\_\_\_\_\_32.193903

	Longitude	-103.918088
NAD 83	in decimal degrees to 5 dec	imal places)

Site Name PLU 442/443 SWD Battery	Site Type Tank Battery	
Date Release Discovered 5-22-2020	API# (if applicable)	

Unit Letter	Section	Township	Range	County
В	30	24S	30E	Eddy

Surface Owner: State 🗷 Federal 🗌 Tribal 🗌 Private (Name,

# Nature and Volume of Release

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

K Crude Oil	Volume Released (bbls) 0.01	Volume Recovered (bbls) <sub>0</sub>
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Fluid from the sales scrubber made it into the supply gas line to the flare pilot and ultimately out of the flare starting a fire on the ground. De minimus amount of fluid impacted pad surface. A third-party contractor has been retained for remediation activities.

<b>Received</b>	by	OCD:	11/20	/2020	1:31:	06 PM
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F

Form C-141	State of New Mexico	Incident ID	NRM2016049766
Page 2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
Was this a major       If YES, for what reason(s) does the responsible party of An unauthorized release of a volume that results in a final		arty consider this a major release? n a fire or is the result of a fire.	
If YES, was immediate no	otice given to the OCD? By whom? To whom? W	hen and by what means (phone, e	email, etc)?
Yes, by Adrian Baker via email to Mike.Bratcher@state.nm.us; Robert.Hamlet@state.nm.us; 'Venegas, Victoria, EMNRD'; 'Gri Jim, EMNRD'; 'blm_nm_cfo_spill@blm.gov'; 'Morgan, Crisha A' on Friday, May 22, 2020 10:07 AM.			ria, EMNRD'; 'Griswold,

## **Initial Response**

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

 $\mathbf{x}$  The source of the release has been stopped.

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

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

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

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Kyle Littrell	Title: SH&E Supervisor
Signature: email: Kyle Littrett@xtoenergy.com	Date: Telephone:
OCD Only Received by: <u>Ramona Marcus</u>	Date: 6/8/2020

NRM2016049766

Location:	PLU 442/443 SWD Battery		
Spill Date:	te: 5/22/2020		
	Area 1		
Approximate A	rea =	207.00	sq. ft.
Average Saturation (or depth) of spill = 0.13		inches	
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil	=	0.01	bbls

TOTAL VOLUME O	F LEAK
Total Crude Oil =	0.01 bbls
TOTAL VOLUME REC	COVERED
Total Crude Oil =	0.00 bbls

Oil Conservation Division

	Page 4 of 92
Incident ID	NRM2016049766
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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?	$\geq 100$ (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗙 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗙 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗙 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗙 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗙 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

Field data

Page 3

- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD:	11/20/2020 1:31:06 PM			Page 5 of 92
F01111 C-141	State of New Mexico		Incident ID	NRM2016049766
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
I hereby certify that regulations all opera public health or the failed to adequately addition, OCD acce and/or regulations. Printed Name: Signature: email:	the information given above is true and complete to the be ators are required to report and/or file certain release notifi environment. The acceptance of a C-141 report by the OC investigate and remediate contamination that pose a thread ptance of a C-141 report does not relieve the operator of re- kyle Littrell Littrell Littrell Littrell@xtoenergy.com	est of my knowled cations and perfor 2D does not reliev t to groundwater, esponsibility for c Title:S ate:11/18/20 Telephone:	dge and understand that pursu rm corrective actions for rele e the operator of liability sho surface water, human health ompliance with any other fec H&E Supervisor <u>020</u> 432-221-7331	ant to OCD rules and ases which may endanger uld their operations have or the environment. In leral, state, or local laws
OCD Only				
Received by:		Date:		

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Oil Conservation Division

	Page 6 of 92
Incident ID	NRM2016049766
District RP	
Facility ID	
Application ID	

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

inted Name: Kyle Littrell Title: SH&E Supervisor						
Signature: Date:	11/18/2020					
email:Kyle_Littrell@xtoenergy.com Telep	phone: 432-221-7331					
OCD Only						
Received by: Chad Hensley	Date: 02/22/2021					
Closure approval by the OCD does not relieve the responsible party of liab remediate contamination that poses a threat to groundwater, surface water, party of compliance with any other federal, state, or local laws and/or regu	bility should their operations have failed to adequately investigate and human health, or the environment nor does not relieve the responsible lations.					
Closure Approved by:	Date:02/22/2021					
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced					



November 20, 2020

Distric II New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

# RE: Closure Request PLU 442/443 SWD Battery Incident Number NRM2016049766 Eddy County, New Mexico

To Whom It May Concern:

WSP USA, Inc. (WSP) (formerly LT Environmental, Inc.), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the Poker Lake Unit (PLU) 442/443 SWD Battery (Site) in Unit B, Section 30, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of crude oil at the Site. Based on the field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NRM2016049766.

#### **RELEASE BACKGROUND**

On May 22, 2020, fluid from the scrubber entered the gas line, causing a release of approximately 0.01 barrels (bbls) of crude oil through the flare stack which resulted in a small fire. The fire extinguished itself and there were no standing fluids to recover. 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 June 5, 2020 and assigned Incident Number NRM2016049766.

#### SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321205103544701, located approximately 0.61 miles northwest of the Site. The groundwater of 231 feet bgs and a total depth of 452 feet bgs. Ground surface elevation at the groundwater well

WSP USA 508 WEST STEVENS STREET CARLSBAD NM 88220 wsp

District II Page 2

location is 3,193 feet above mean sea level (amsl), which is approximately 35 feet higher in elevation than the Site. There are five additional groundwater wells within a 2.5-mile radius of the Site that indicate regional depth to groundwater is greater than 100 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated referenced well records are included in Enclosure A.

The closest continuously flowing or significant watercourse to the Site is an unnamed dry wash, located approximately 1,020 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

Additionally, the reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH was applied to the undeveloped pasture that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top four feet for areas to be reclaimed following remediation

#### SITE ASSESSMENT ACTIVITIES

On August 12, 2020, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected four preliminary soil samples (SS01 through SS04) within the release extent and the north of the flare. During the site assessment it was observed the area north of the flare was impacted due to overspray from the release. Stressed vegetation was noted during release response. The four preliminary soil samples were collected from a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID)

vsp

District II Page 3

and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The 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.

Laboratory analytical results for preliminary soil sample SS03 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for preliminary soil sample SS01 indicated that TPH-GRO/TPH-DRO, TPH, and chloride concentrations exceeded the Closure Criteria and preliminary soil sample SS02 exceeded the Closure Criteria for chloride concentration. Additionally, chloride concentration exceeds 600 mg/kg in preliminary soil sample SS04 in the top four feet of the subsurface. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, excavation activities were warranted.

#### **EXCAVATION SOIL SAMPLING ACTIVITIES**

Between September 9, 2020 and September 24, 2020, WSP personnel returned to the Site to oversee excavation activities as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples.

Excavation of impacted soil was completed in the areas surrounding preliminary soil samples SS01, SS02, and SS04. Excavation activities were performed using track-mounted backhoe and transport vehicle. Excavation activities occurred on pad surrounding the production equipment. In addition, impacted soil north of the pad was excavated. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips, respectively. Photographic documentation is included in Enclosure B.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the sidewalls and floors of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation was separated into two areas (on pad and pasture). The on-pad excavation measured approximately 307 square feet in area and was completed to depths ranging from approximately 2 to 3 feet bgs. A total of 2 composite floor samples, FS01 and FS02, were collected from the excavation from approximately 2 feet bgs.

# wsp

District II Page 4

Based on elevated chloride in sample FS02, the excavation was extended to 3 feet bgs in that area and resampled as FS02A. Composite soil sample SW01 was collected from the sidewalls of the excavation at depths from the ground surface to 3 feet bgs. The pasture excavation measured approximately 116 square feet and was completed at a depth of approximately 1 foot bgs. One composite sample (FS03) was collected from the excavation. Due to the shallow depth of the excavation, the soil sample represented the floor and sidewalls of the excavation. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The excavation areas totaled approximately 423 square feet. A total of approximately 30 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing. The area north of the flare stack will be reseeded and backfilled with material purchased locally and recontour the Site to match pre-existing site conditions.

#### SOIL ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples indicated that on-pad soil samples SS01 and SS02 exceeded the Closure Criteria for TPH and/or chloride and that sample SS04 exceeded the reclamation standard for chloride in the top four feet per NMAC 19.15.29.13.D (1).

Laboratory analytical results for excavation composite sidewall sample SW01, and composite floor samples FS01, FS02A, and FS03, collected from the final excavation extents, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Excavation confirmation samples FS03, collected from the pasture, contains concentrations of TPH and chloride in compliance with the reclamation standard. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Enclosure C.

#### **CLOSURE REQUEST**

Response efforts as a result of the May 22, 2020 crude oil release included excavation and removal of impacted soil, and collection of confirmation soil samples. Based on analytical results, the impacted soil was removed to depths ranging from 1 foot bgs to 3 feet bgs. Laboratory analytical results for the excavation confirmation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and the reclamation standard and no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

District II Page 5

wsp

Based on the confirmation soil sample analytical results indicating benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the strictest Closure Criteria, XTO respectfully requests NFA for Incident Number NRM2016049766.

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

Sincerely,

Elizabeth Naka

Elizabeth Naka Assistant Consultant, Environmental Scientist

Ashley L. ager

Ashley L. Ager, P.G. Managing Director, Geologist

cc: Kyle Littrell, XTO Robert Hamlet, NMOCD Victoria Venegas, NMOCD United States Bureau of Land Management – New Mexico

Encl.

# FIGURES

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# TABLES

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#### Table 1

#### Soil Analytical Results PLU 442/443 SWD Battery Incident Number: NRM2016049766 Eddy County, New Mexico XTO Energy, Inc.

Sample ID	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-MRO (mg/kg)	TOTAL GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clos	sure Criteria (NMAC	C 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	08/12/2020	0.5	< 0.00200	< 0.00200	2,940	<250	631	2,940	3,570	46,000
SS02	08/12/2020	0.5	< 0.00200	< 0.00200	861	<49.9	223	861	1,080	30,000
SS03	09/09/2020	0.5	< 0.00200	< 0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	244
SS04	09/09/2020	0.5	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	748
Excavation Floor Samples										
FS01	09/09/2020	2	< 0.00201	< 0.00201	<50.3	<50.3	<50.3	<50.3	<50.3	519
FS02	09/09/2020	2	< 0.00198	< 0.00198	77.0	<50.0	<50.0	77.0	77.0	1,720
FS02A	09/24/2020	3	< 0.00202	< 0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	126
FS03	09/24/2020	1	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	87.4
Excavation Sidewall S	Samples									
SW01	09/24/2020	0 - 3	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	378

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

MRO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

**BOLD** - indicates results exceed the higher of the background sample result or practical quantitation limit

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## **National Water Information System: Web Interface**

USGS	Water	Resources

Gro	undwater	$\sim$
Data	Category:	

Geographic Area: United States

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Groundwater levels for the Nation

# Search Results -- 1 sites found

site\_no list =

• 321205103544701

# **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

# USGS 321205103544701 24S.30E.19.42113

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°12'05", Longitude 103°54'47" NAD27 Land-surface elevation 3,188 feet above NAVD88 The depth of the well is 452 feet below land surface. This well is completed in the Rustler Formation (312RSLR) local aquifer.

## **Output formats**

# Table of data Tab-separated data Graph of data Reselect period



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-11-17 11:46:20 EST 0.77 0.61 nadww01





Well Tag	POD Number	Q64 Q16 Q4	Sec Tws Rng	Χ	Y
	C 02109	1 2 4	19 24S 30E	602130 35634	12 🌍
x Driller Lice	ense:	Driller Compan	y:		
Driller Nar	me: UNKNOWN				
Drill Start	Date:	Drill Finish Dat	<b>e:</b> 12/31/1963	Plug Date:	
Log File Da	ate:	PCW Rcv Date:		Source:	
Pump Type	e:	Pipe Discharge S	Size:	Estimated	Yield: 40 GPM
Casing Size	e: 7.00	Depth Well:	130 feet	Depth Wat	ter: 150 feet

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/17/20 9:46 AM

POINT OF DIVERSION SUMMARY



		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64 Q16 Q4 Sec 7	ws Rng	X Y	
	C 02108	1 3 08 2	24S 30E	602702 3566487* 😜	
x Driller Lic	ense:	Driller Company:			
Driller Na	me: UNKNOWN				
Drill Start	Date:	Drill Finish Date:	12/31/1963	Plug Date:	
Log File D	ate:	PCW Rcv Date:		Source:	
Pump Typ	e:	Pipe Discharge Size:		<b>Estimated Yield:</b>	16 GPM
Casing Siz	<b>e:</b> 7.00	Depth Well:	200 feet	Depth Water:	186 feet

\*UTM location was derived from PLSS - see Help

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11/18/20 8:41 PM

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Data	Ca	regui	¥ +	
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Data Category

**Geographic Area: United States** 

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# Search Results -- 1 sites found

site no list =

• 321339103541801

# Minimum number of levels = 1

Save file of selected sites to local disk for future upload

# USGS 321339103541801 24S.30E.08.33222

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°13'39", Longitude 103°54'18" NAD27 Land-surface elevation 3,207 feet above NAVD88 The depth of the well is 192 feet below land surface. This well is completed in the Rustler Formation (312RSLR) local aquifer.

## **Output formats**

# <u>Table of data</u> Tab-separated data Graph of data Reselect period



Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-11-18 22:40:45 EST 0.62 0.56 nadww01





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## National Water Information System: Web Interface

USGS	Water	<b>Resources</b>	

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**Geographic Area: United States** 

GO

GO

# Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard to access real-time data from over 13,500 stations nationwide.
- Full News 🔝

Groundwater levels for the Nation

# Search Results -- 1 sites found

site no list =

321321103544101

# Minimum number of levels = 1

Save file of selected sites to local disk for future upload

# USGS 321321103544101 24S.30E.18.22144

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°13'21", Longitude 103°54'41" NAD27 Land-surface elevation 3,192 feet above NAVD88 

Table of data						
Tab-separated data						
Graph of data						
Reselect period						



Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-11-18 22:38:55 EST 0.61 0.56 nadww01





# New Mexico Office of the State Engineer Point of Diversion Summary

			(quarters	(quarters are 1=NW 2=NE 3=SW 4=SE)							
			(quarter	(quarters are smallest to largest)						ters)	
Well Tag	POE	) Number	Q64 Q	16 Q4	Sec	Tws	Rng	2	X	Y	
	C 0	3960 POD1	1	3 2	21	24S	30E	60506	2 3563	712 🌍	
x Driller Lic	ense:	1753	Driller C	Compa	ny:	VAI	NGUAR	.D WATE	ER WELLS	5	
Driller Na	me:	JACOBO FRIES	SSEN								
Drill Start	Date:	11/12/2016	Drill Fin	ish Da	te:	11	/12/201	6	Plug Date	:	
Log File D	ate:	11/17/2016	PCW Ro	v Date	:				Source:		Shallow
Pump Type:		Pipe Dise	Pipe Discharge Size:				<b>Estimated Yield:</b>				
Casing Siz	e:	6.00	Depth W	ell:		47	5 feet		Depth Wa	ter:	250 feet
X	Wate	er Bearing Strati	fications:	Тс	p I	Bottom	Descri	iption			
				18	32	250	Sandst	tone/Grav	vel/Conglo	merate	
				4(	)2	460	Sandst	tone/Grav	vel/Conglo	merate	
X		Casing Per	forations:	Тс	p F	Bottom					
				25	50	290					
				39	95	435					

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/18/20 8:36 PM

POINT OF DIVERSION SUMMARY



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## National Water Information System: Web Interface

USGS	Water	Resources	

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**Geographic Area: United States** 

GO

GO

# Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard to access real-time data from over 13,500 stations nationwide.
- Full News 🔝

Groundwater levels for the Nation

# Search Results -- 1 sites found

site no list =

• 321214103525501

# Minimum number of levels = 1

Save file of selected sites to local disk for future upload

# USGS 321214103525501 24S.30E.21.23144

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°12'14", Longitude 103°52'55" NAD27 Land-surface elevation 3,371 feet above NAVD88 This well is completed in the Rustler Formation (312RSLR) local aquifer.

# **Output formats**

Table of data

Tab-separated data

Graph of data

Reselect period



Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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0.66 0.6 nadww01



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# wsp

PHOTOGRAPHIC LOG							
XTO Energy, Inc.	PLU 442/443 SWD Battery	NRM					
	Eddy County, New Mexico						

Photo No.	Date
1	August 12, 2020
View facing sou affected v	theast on pad and vegetation.

Photo No	Date	
1 11010 110.	Date	
2	August 12, 2020	
View facing around f	east of staining lare stack.	

•

# wsp

	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	PLU 442/443 SWD Battery	NRM
	Eddy County, New Mexico	





. Released to Imaging: 2/22/2021 3:29:00 PM

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#### Project Id: 012920122 Dan Moir

**Contact:** 

**Project Location:** 

Certificate of Analysis Summary 669976

LT Environmental, Inc., Arvada, CO

Project Name: PLU 442-443

Date Received in Lab: Thu 08.13.2020 11:45 **Report Date:** 08.17.2020 11:21

Project Manager: Jessica Kramer

	Lab Id:	669976-0	01	669976-00	02		
Analysis Requested	Field Id:	SS01		SS02			
marysis Requested	Depth:	0.5- ft		0.5- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	08.12.2020	15:09	08.12.2020	15:17		
BTEX by EPA 8021B	Extracted:	08.14.2020 (	08:47	08.14.2020 (	)8:47		
	Analyzed:	08.14.2020	16:06	08.14.2020	16:29		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00200	0.00200	< 0.00200	0.00200		
Toluene		< 0.00200	0.00200	< 0.00200	0.00200		
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200		
m,p-Xylenes		< 0.00399	0.00399	< 0.00399	0.00399		
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200		
Total Xylenes		< 0.00200	0.00200	< 0.00200	0.00200		
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	08.14.2020	11:00	08.14.2020	11:00		
	Analyzed:	08.14.2020	12:40	08.14.2020	12:57		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		46000	495	30000	498		
TPH by SW8015 Mod	Extracted:	08.13.2020	17:10	08.13.2020	17:10		
	Analyzed:		08.13.2020 23:34		22:54		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<250	250	<49.9	49.9		
Diesel Range Organics (DRO)		2940	250	861	49.9		
Motor Oil Range Hydrocarbons (MRO)		631	250	223	49.9		
Total GRO-DRO		2940	250	861	49.9		
Total TPH		3570	250	1080	49.9		

BRL - Below Reporting Limit

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

Jession Vramer

Page 1 of 14

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# **Analytical Report 669976**

Page 35 of 92

# for

# LT Environmental, Inc.

**Project Manager: Dan Moir** 

PLU 442-443

012920122

#### 08.17.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



08.17.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 669976 PLU 442-443 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 Eurofins Xenco, LLC Report Number(s) 669976. 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 Eurofins Xenco, LLC. 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. 669976 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico
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## Sample Cross Reference 669976

#### LT Environmental, Inc., Arvada, CO

PLU 442-443

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	08.12.2020 15:09	0.5 ft	669976-001
SS02	S	08.12.2020 15:17	0.5 ft	669976-002

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### **CASE NARRATIVE**

Client Name: LT Environmental, Inc. Project Name: PLU 442-443

 Project ID:
 012920122

 Work Order Number(s):
 669976

Report Date: 08.17.2020 Date Received: 08.13.2020

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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## **Certificate of Analytical Results 669976**

### LT Environmental, Inc., Arvada, CO

PLU 442-443

Sample Id: Lab Sample Id:	<b>SS01</b> 669976-001		Matrix Date C	:: So Collected: 08	il .12.2020 15:09		Date Received:08.13.2020 11:45 Sample Depth: 0.5 ft				
Analytical Meth	od: Chloride by EP.	A 300					Prep Method: E300P				
Tech: N	MAB						% Moisture:				
Analyst: N	MAB		Date P	Prep: 08	.14.2020 11:00		Basis: We	t Weight			
Seq Number: 3	3134602										
Parameter		Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil		
Chloride		16887-00-6	46000	495		mg/kg	08.14.2020 12:40		50		
Analytical Method:TPH by SW8015 ModTech:DTHAnalyst:DTHSeq Number:3134547		5 Mod	Date P	Prep: 08	.13.2020 17:10		Prep Method: SW % Moisture: Basis: We	8015P t Weight			
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Gasoline Range Hy	drocarbons (GRO)	PHC610	<250	) 250		mg/kg	08.13.2020 23:34	U	5		
Diesel Range Orga	anics (DRO)	C10C28DRO	2940	250		mg/kg	08.13.2020 23:34		5		
Motor Oil Range Hy	drocarbons (MRO)	PHCG2835	631	250		mg/kg	08.13.2020 23:34		5		
Total GRO-DRO		PHC628	2940	250		mg/kg	08.13.2020 23:34		5		
Total TPH		PHC635	3570	250		mg/kg	08.13.2020 23:34		5		
Surrogate			Cas Number	% Recover	y Units	Limits	Analysis Date	Flag			
1-Chloroocta	ne		111-85-3	98	%	70-135	08.13.2020 23:34	1			
o-Terphenyl			84-15-1	105	%	70-135	08.13.2020 23:34	1			

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## **Certificate of Analytical Results 669976**

### LT Environmental, Inc., Arvada, CO

PLU 442-443

Sample Id:	SS01	Matrix:	Soil	Date Received:08.13.2020 11:45				
Lab Sample Id:	669976-001	Date Collected	: 08.12.2020 15:09	Sample Depth: 0.5 ft				
Analytical Metho Tech: M Analyst: M Seq Number: 3	od: BTEX by EPA 8021B MAB MAB 8134693	Date Prep:	08.14.2020 08:47	Prep Method: % Moisture: Basis:	SW5035A Wet Weight			

Parameter	Cas Numbe	r Result	Result RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.14.2020 16:06	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.14.2020 16:06	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.14.2020 16:06	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	08.14.2020 16:06	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.14.2020 16:06	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.14.2020 16:06	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.14.2020 16:06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	81	%	70-130	08.14.2020 16:06		
1,4-Difluorobenzene		540-36-3	103	%	70-130	08.14.2020 16:06		

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## **Certificate of Analytical Results 669976**

### LT Environmental, Inc., Arvada, CO

PLU 442-443

Sample Id: Lab Sample Id	<b>SS02</b> : 669976-002		Matrix Date C	: Soil Collected: 08.1	1 12.2020 15:17		Date Received:08.13.2020 11:45 Sample Depth: 0.5 ft					
Analytical Met	thod: Chloride by EP	A 300					Prep Method: E300P					
Tech:	MAB						% Moisture:					
Analyst:	MAB		Date P	rep: 08.1	14.2020 11:00		Basis: Wet	Weight				
Seq Number:	3134602											
Parameter		Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil			
Chloride		16887-00-6	30000	498		mg/kg	08.14.2020 12:57		50			
Analytical Method:TPH by SW8015 ModTech:DTHAnalyst:DTHSeq Number:3134547		5 Mod	Date P	'rep: 08.1	13.2020 17:10		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight				
Parameter		Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil			
Gasoline Range H	Iydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	08.13.2020 22:54	U	1			
Diesel Range Org	ganics (DRO)	C10C28DRO	861	49.9		mg/kg	08.13.2020 22:54		1			
Motor Oil Range H	lydrocarbons (MRO)	PHCG2835	223	49.9		mg/kg	08.13.2020 22:54		1			
Total GRO-DRO	)	PHC628	861	49.9		mg/kg	08.13.2020 22:54		1			
Total TPH		PHC635	1080	49.9		mg/kg	08.13.2020 22:54		1			
Surrogate			Cas Number	% Recovery	Units	Limits	Analysis Date	Flag				
1-Chlorooct	ane		111-85-3	95	%	70-135	08.13.2020 22:54					
o-Terphenyl	1		84-15-1	95	%	70-135	08.13.2020 22:54					

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## **Certificate of Analytical Results 669976**

### LT Environmental, Inc., Arvada, CO

PLU 442-443

Sample Id:	SS02	Matrix:	Soil	Date Received:08.13.2020 11:45				
Lab Sample Id: 669976-002		Date Collected	1:08.12.2020 15:17	Sample Depth	h: 0.5 ft			
Analytical Me Tech: Analyst: Seq Number:	thod: BTEX by EPA 8021B MAB MAB 3134693	Date Prep:	08.14.2020 08:47	Prep Method: % Moisture: Basis:	SW5035A Wet Weight			

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.14.2020 16:29	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.14.2020 16:29	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.14.2020 16:29	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	08.14.2020 16:29	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.14.2020 16:29	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.14.2020 16:29	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.14.2020 16:29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	08.14.2020 16:29		
4-Bromofluorobenzene		460-00-4	93	%	70-130	08.14.2020 16:29		

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Environment Testing

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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.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL	Below Reporting Limit.	ND Not Detected.			
RL	Reporting Limit				
MDL	Method Detection Limit	SDL Sample Det	ection Limit	LOD Limit of Detection	
PQL	Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitation	n
DL	Method Detection Limit				
NC	Non-Calculable				
SMP	Client Sample		BLK	Method Blank	
BKS/	LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/S	<b>D</b> Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NE	ELAC certification not offered	for this compound.			

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

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**Environment Testing** 

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QC Summary 669976

## LT Environmental, Inc.

PLU 442-443

Analytical Method: Seq Number: MB Sample Id:	<b>Chloride by</b> 3134602 7709464-1-1	l <b>oride by EPA 300</b> 34602 )9464-1-BLK			Matrix: LCS Sample Id:		Solid 7709464-1-BKS			Prep Method: E300P Date Prep: 08.14.2020 LCSD Sample Id: 7709464-1-BSD			
Parameter		MB	Spike	LCS		LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		<10.0	Amount 250	260	<b>%Rec</b> 104	Result 263	<b>%Rec</b> 105	90-110	1	20	mg/kg	Date 08.14.2020 12:29	
<b>Analytical Method:</b> Seq Number: Parent Sample Id: <b>Parameter</b> Chloride	<b>Chloride by</b> 3134602 670038-004	7 <b>EPA 30</b> Parent Result 10900	0 Spike Amount 198	] MS San MS Result 11100	Matrix: nple Id: <b>MS</b> %Rec 101	Soil 670038-00 <b>MSD</b> Result 11100	04 S MSD %Rec 101	<b>Limits</b> 90-110	Pr MSI %RPD 0	ep Metho Date Pre D Sample <b>RPD</b> Limit 20	od: E30 ep: 08.1 e Id: 670 <b>Units</b> mg/kg	0P 14.2020 038-004 SD Analysis Date 08.14.2020 16:04	Flag
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Chloride by</b> 3134602 670079-003	7 EPA 30	0	] MS San	Matrix: nple Id:	Soil 670079-00	)3 S		Pr MSI	ep Metho Date Pro D Sample	od: E30 ep: 08.1 e Id: 670	0P 14.2020 079-003 SD	
Parameter		Parent	Spike	MS	MS % Dee	MSD	MSD	Limits	%RPD	RPD Limit	Units	Analysis	Flag
Chloride		13.7	200	208	97	211	% <b>кес</b> 99	90-110	1	20	mg/kg	08.14.2020 14:18	
<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>TPH by SW8015 Mod</b> 3134547 7709452 1 BL K			I LCS San	Matrix:	Solid 7709452-1-BKS			Pr LCSI	ep Metho Date Pro D Sample	od: SW ep: 08.1 e Id: 770	8015P 13.2020 9452-1-BSD	
Parameter		MB	Spike	LCS Bogult		LCSD	LCSD	Limits	%RPD	RPD Limit	Units	Analysis	Flag
Gasoline Range Hydrocarbo Diesel Range Organics (	ons (GRO) DRO)	<50.0 <50.0	1000 1000	876 919	% <b>Kec</b> 88 92	906 936	% <b>кес</b> 91 94	70-135 70-135	3 2	35 35	mg/kg mg/kg	08.13.2020 19:12 08.13.2020 19:12	
Surrogate		MB %Rec	MB Flag	L0 %]	CS Rec	LCS Flag	LCSI %Re	D LCSI	) Li	mits	Units	Analysis Date	
1-Chlorooctane o-Terphenyl		103 107		1 10	13 05		115 105		70- 70-	-135 -135	% %	08.13.2020 19:12 08.13.2020 19:12	
Analytical Method: Seq Number:	<b>TPH by SW</b> 3134547	/8015 Me	od	] MB San	Matrix: nple Id:	Solid 7709452-1	-BLK		Pr	ep Metho Date Pro	od: SW ep: 08.1	8015P 13.2020	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocarb	oons (MRO)			<50.0							mg/kg	08.13.2020 18:52	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

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Xenco

**Environment Testing** 

🔅 eurofins

### LT Environmental, Inc.

PLU 442-443

nalytical Method:TPH by SW8015 Modeq Number:3134547arent Sample Id:669943-001				Matrix: Soil MS Sample Id: 669943-001 S			Prep Method: SW8015P Date Prep: 08.13.2020 MSD Sample Id: 669943-001 SD						
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<49.8	995	883	89	914	90	70-135	3	35	mg/kg	08.13.2020 20:12	
Diesel Range Organics (	DRO)	<49.8	995	921	93	947	94	70-135	3	35	mg/kg	08.13.2020 20:12	
Surrogate				N %]	IS Rec	MS Flag	MSD %Ree	MSD c Flag	) Li	mits	Units	Analysis Date	
1-Chlorooctane				1	03		107		70	-135	%	08.13.2020 20:12	
o-Terphenyl				9	94		97		70	-135	%	08.13.2020 20:12	

Analytical Method:	BTEX by EPA 8021	В				Prep Method: SW5035A						
Seq Number:	3134693		Matrix: Solid						Date Prep: 08.14.2020			
MB Sample Id:	7709453-1-BLK		LCS San	nple Id:	7709453-2	1-BKS		LCS	D Sample	e Id: 770	9453-1-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	0.110	110	0.101	101	70-130	9	35	mg/kg	08.14.2020 14:03	
Toluene	< 0.00200	0.100	0.105	105	0.0961	96	70-130	9	35	mg/kg	08.14.2020 14:03	
Ethylbenzene	< 0.00200	0.100	0.0978	98	0.0893	89	71-129	9	35	mg/kg	08.14.2020 14:03	
m,p-Xylenes	< 0.00400	0.200	0.198	99	0.181	91	70-135	9	35	mg/kg	08.14.2020 14:03	
o-Xylene	< 0.00200	0.100	0.0981	98	0.0896	90	71-133	9	35	mg/kg	08.14.2020 14:03	
Surrogate	MB %Rec	MB Flag	L0 %]	CS Rec	LCS Flag	LCSI %Re	) LCSI c Flag	D Li g	imits	Units	Analysis Date	
1,4-Difluorobenzene	98		9	98		98		70	-130	%	08.14.2020 14:03	
4-Bromofluorobenzene	93		9	8		98		70	-130	%	08.14.2020 14:03	

Analytical Method:	BTEX by EPA 8021	IB			Prep Method: SW5035A							
Seq Number:	3134693		Matrix: Soil						Date Prep: 08.14.2020			
Parent Sample Id:	669976-001		MS Sample Id: 669976-001 S			01 S	MSD Sample Id: 669976-001 SD					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.105	105	0.105	105	70-130	0	35	mg/kg	08.15.2020 01:59	
Toluene	< 0.00199	0.0996	0.100	100	0.0999	100	70-130	0	35	mg/kg	08.15.2020 01:59	
Ethylbenzene	< 0.00199	0.0996	0.0958	96	0.0926	93	71-129	3	35	mg/kg	08.15.2020 01:59	
m,p-Xylenes	< 0.00398	0.199	0.188	94	0.188	94	70-135	0	35	mg/kg	08.15.2020 01:59	
o-Xylene	< 0.00199	0.0996	0.0936	94	0.0933	94	71-133	0	35	mg/kg	08.15.2020 01:59	
Surrogate			N %	1S Rec	MS Flag	MSD %Ree	) MSE c Flag	) L	imits	Units	Analysis Date	
1,4-Difluorobenzene			1	00		100		70	-130	%	08.15.2020 01:59	
4-Bromofluorobenzene			1	01		99		70	-130	%	08.15.2020 01:59	

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

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

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	Kyle Littrell         XTO Energy, Inc.         3104 E Greene St         Cantsbad, NM 88220         dmoir@ltenv.com         ANALYSIS REQU         AS Ba BE BC Chloride (EPA 300.0)         X X       X         X X       X         X X       X         X X       X         X X       X         X X       X         X X       X         X X       X         X X       X         X X       X         X X       X         X X       X         X X       X         X X       X         X X
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XENCO

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

Chain of Custody

Work Order No: 6697

Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900

### **Eurofins Xenco, LLC**

### Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature	Range: 0 - 6 degC					
Date/ Time Received: 08.13.2020 11.45.00 AM	Air and Metal samples Acceptable Range: Ambient						
Work Order #: 669976	Temperature Measuring d	levice used : T-NM-007					
Sample Rece	eipt Checklist	Comments					
#1 *Temperature of cooler(s)?	2.4						
#2 *Shipping container in good condition?	Yes						
#3 *Samples received on ice?	Yes						
#4 *Custody Seals intact on shipping container/ cooler?	Yes						
#5 Custody Seals intact on sample bottles?	Yes						
#6*Custody Seals Signed and dated?	Yes						
#7 *Chain of Custody present?	Yes						
#8 Any missing/extra samples?	No						
#9 Chain of Custody signed when relinquished/ received?	Yes						
#10 Chain of Custody agrees with sample labels/matrix?	Yes						
#11 Container label(s) legible and intact?	Yes						
#12 Samples in proper container/ bottle?	Yes	Samples received in proper containers					
#13 Samples properly preserved?	Yes						
#14 Sample container(s) intact?	Yes						
#15 Sufficient sample amount for indicated test(s)?	Yes						
#16 All samples received within hold time?	Yes						
#17 Subcontract of sample(s)?	No						
#18 Water VOC samples have zero headspace?	N/A						

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 08.13.2020

Checklist reviewed by: Jessica WAAMER Jessica Kramer

Date: 08.14.2020

eurofins Environment Testing Xenco

Project Id:012920122Contact:Dan Moir

Project Location: Eddy County

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### Certificate of Analysis Summary 672171

LT Environmental, Inc., Arvada, CO

#### Project Name: PLU 442/443 SWD Battery

 Date Received in Lab:
 Wed 09.09.2020 15:50

 Report Date:
 09.10.2020 11:14

Project Manager: Jessica Kramer

Lab Id:	672171-0	01	672171-0	02				
Field Id:	SS03		SS04					
Depth:	.5- ft		.5- ft					
Matrix:	SOIL		SOIL					
Sampled:	09.09.2020	10:58	09.09.2020	11:35				
Extracted:	09.09.2020	16:16	09.09.2020	16:16				
Analyzed:	09.09.2020	22:23	09.09.2020	22:45				
Units/RL:	mg/kg	RL	mg/kg	RL				
	< 0.00200	0.00200	< 0.00200	0.00200				
	< 0.00200	0.00200	< 0.00200	0.00200				
	< 0.00200	0.00200	< 0.00200	0.00200				
	< 0.00399	0.00399	< 0.00399	0.00399				
	< 0.00200	0.00200	< 0.00200	0.00200				
	< 0.00200	0.00200	< 0.00200	0.00200				
	< 0.00200	0.00200	< 0.00200	0.00200				
Extracted:	09.09.2020 16:30		09.09.2020 16:30					
Analyzed:	09.09.2020	18:25	09.09.2020 18:31					
Units/RL:	mg/kg	RL	mg/kg	RL				
	244	9.90	748	9.98				
Extracted:	09.09.2020	17:30	09.09.2020	17:30				
Analyzed:	09.09.2020	22:19	09.09.2020	23:20				
Units/RL:	mg/kg	RL	mg/kg	RL				
Units/RL:	mg/kg <50.1	RL 50.1	mg/kg <50.0	RL 50.0				
Units/RL:	mg/kg <50.1 <50.1	RL 50.1 50.1	mg/kg <50.0 <50.0	RL 50.0 50.0				
Units/RL:	mg/kg <50.1 <50.1	RL 50.1 50.1 50.1	mg/kg <50.0 <50.0 <50.0	RL 50.0 50.0 50.0				
	mg/kg <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1 50.1	mg/kg           <50.0	RL 50.0 50.0 50.0 50.0				
	Lab Id: Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL:	Lab Id:         672171-0           Field Id:         SS03           Depth:         .5- ft           Matrix:         SOIL           Sampled:         09.09.2020           Extracted:         09.09.2020           Analyzed:         09.09.2020           Units/RL:         mg/kg            <0.00200           Units/RL:         mg/kg            <0.00200            <0.00200            <0.00200            <0.00200            <0.00200            <0.00200            <0.00200            <0.00200            <0.00200            <0.00200            <0.00200            <0.00200           <         <0.00200           <         <0.00200            <0.00200            <0.00200            <0.00200            <0.00200            <0.00200            <0.00200            <0.00200 <th>Lab Id:       <math>672171-001</math>         Field Id:       SS03         Depth:       .5- ft         Matrix:       SOIL         Sampled:       09.09.2020 10:58         Extracted:       09.09.2020 10:58         Extracted:       09.09.2020 10:58         Units/RL:       mg/kg         V       <math>09.09.2020</math> 22:23         Units/RL:       mg/kg         V       <math>&lt;0.00200</math> <math>&lt;0.00200</math> <math>0.00200</math> <math>&lt;0.00200</math> <math>0.00200</math> <t< th=""><th><math display="block">\begin{tabular}{ c c c c c } \hline Lab Id: &amp; 672171-001 &amp; 672171-00 \\ \hline Field Id: &amp; SS03 &amp; SS04 \\ \hline Depth: &amp; .5- ft &amp; .5- ft \\ \hline Matrix: &amp; SOIL &amp; SOIL \\ \hline Sampled: &amp; 09.09.2020 &amp; 10:58 &amp; 09.09.2020 \\ \hline Sampled: &amp; 09.09.2020 &amp; 16:16 &amp; 09.09.2020 \\ \hline Extracted: &amp; 09.09.2020 &amp; 22:23 &amp; 09.09.2020 \\ \hline Matrix: &amp; mg/kg &amp; RL &amp; mg/kg \\ \hline &amp; 09.09.2020 &amp; 0.00200 &amp; &lt;0.00200 \\ \hline &amp; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 \\ \hline &amp; &lt; &lt;</math></th><th><math display="block">\begin{tabular}{ c c c c c } \hline Lab Id: &amp; 672171-001 &amp; 672171-002 \\ \hline Field Id: &amp; SS03 &amp; SS04 \\ \hline Depth: &amp; .5- ft &amp; .5- ft &amp; SOIL \\ \hline Matrix: &amp; SOIL &amp; SOIL &amp; SOIL \\ \hline Matrix: &amp; SOIL &amp; 09.09.2020 11:35 \\ \hline Sampled: &amp; 09.09.2020 10:58 &amp; 09.09.2020 11:35 \\ \hline Sampled: &amp; 09.09.2020 16:16 &amp; 09.09.2020 16:16 \\ \hline Analyzed: &amp; 09.09.2020 22:23 &amp; 09.09.2020 22:45 \\ \hline Units/RL: &amp; mg/kg &amp; RL &amp; mg/kg &amp; RL \\ \hline &amp; &lt;&lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &amp;</math></th><th>Lab Id:       <math>672171-001</math> <math>672171-002</math>         Field Id:       SS03       SS04         Depth:       .5- ft       .5- ft         Matrix:       SOIL       SOIL         Sampled:       09.09.2020 10:58       09.09.2020 16:16         Analyzed:       09.09.2020 22:23       09.09.2020 22:45         Units/RL:       mg/kg       RL         <math>&lt; 0.00200</math>       0.00200       <math>&lt; 0.00200</math> <math>&lt; 0.00200</math>       0.00200       <math>&lt; 0.00200</math> <math>&lt; 0.00200</math>       0.00200       <math>&lt; 0.00200</math> <math>&lt; 0.00200</math> <math>0.00200</math> <math>&lt; 0.00200</math> <math>&lt; 0.00200</math> <math>0.00200</math> <math>&lt; 0.00200</math> <math>&lt; 0.00200</math> <math>0.00200</math> <math>0.00200</math> <math>&lt; 0.00200</math></th><th>Lab Id:       <math>672171-001</math> <math>672171-002</math>         Field Id:       SS03       SS04         Depth:       .5- ft       .5- ft         Matrix:       SOIL       SOIL         Sampled:       09.09.2020 10:58       09.09.2020 16:16         Analyzed:       09.09.2020 22:23       09.09.2020 22:45         Units/RL:       mg/kg       RL       mg/kg          <math>&lt; 0.00200</math> <math>0.00200</math> <math>0.00200</math> <!--</th--><th>Lab Id:       <math>672171-001</math> <math>672171-002</math>         Field Id:       SS03       SS04         Depth:       .5- ft       .5- ft         Matrix:       SOIL       SOIL         Sampled:       09.09.2020 10:58       09.09.2020 11:35         Extracted:       09.09.2020 12:23       09.09.2020 22:45         Units/RL:       mg/kg       RL         <math>\sim 0.00200</math>       0.00200       -         <math>\sim 0.00200</math>       0.00200       -</th></th></t<></th>	Lab Id: $672171-001$ Field Id:       SS03         Depth:       .5- ft         Matrix:       SOIL         Sampled:       09.09.2020 10:58         Extracted:       09.09.2020 10:58         Extracted:       09.09.2020 10:58         Units/RL:       mg/kg         V $09.09.2020$ 22:23         Units/RL:       mg/kg         V $<0.00200$ $<0.00200$ $0.00200$ $<0.00200$ $<0.00200$ $<0.00200$ $<0.00200$ $<0.00200$ $<0.00200$ $<0.00200$ $<0.00200$ $<0.00200$ $<0.00200$ $<0.00200$ $<0.00200$ $<0.00200$ $0.00200$ $<0.00200$ $0.00200$ $<0.00200$ $0.00200$ $<0.00200$ $0.00200$ $<0.00200$ $0.00200$ $<0.00200$ $0.00200$ $<0.00200$ $0.00200$ $<0.00200$ $0.00200$ $<0.00200$ $0.00200$ $<0.00200$ $0.00200$ $<0.00200$ $0.00200$ <t< th=""><th><math display="block">\begin{tabular}{ c c c c c } \hline Lab Id: &amp; 672171-001 &amp; 672171-00 \\ \hline Field Id: &amp; SS03 &amp; SS04 \\ \hline Depth: &amp; .5- ft &amp; .5- ft \\ \hline Matrix: &amp; SOIL &amp; SOIL \\ \hline Sampled: &amp; 09.09.2020 &amp; 10:58 &amp; 09.09.2020 \\ \hline Sampled: &amp; 09.09.2020 &amp; 16:16 &amp; 09.09.2020 \\ \hline Extracted: &amp; 09.09.2020 &amp; 22:23 &amp; 09.09.2020 \\ \hline Matrix: &amp; mg/kg &amp; RL &amp; mg/kg \\ \hline &amp; 09.09.2020 &amp; 0.00200 &amp; &lt;0.00200 \\ \hline &amp; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 \\ \hline &amp; &lt; &lt;</math></th><th><math display="block">\begin{tabular}{ c c c c c } \hline Lab Id: &amp; 672171-001 &amp; 672171-002 \\ \hline Field Id: &amp; SS03 &amp; SS04 \\ \hline Depth: &amp; .5- ft &amp; .5- ft &amp; SOIL \\ \hline Matrix: &amp; SOIL &amp; SOIL &amp; SOIL \\ \hline Matrix: &amp; SOIL &amp; 09.09.2020 11:35 \\ \hline Sampled: &amp; 09.09.2020 10:58 &amp; 09.09.2020 11:35 \\ \hline Sampled: &amp; 09.09.2020 16:16 &amp; 09.09.2020 16:16 \\ \hline Analyzed: &amp; 09.09.2020 22:23 &amp; 09.09.2020 22:45 \\ \hline Units/RL: &amp; mg/kg &amp; RL &amp; mg/kg &amp; RL \\ \hline &amp; &lt;&lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &amp; &lt; 0.00200 &amp; 0.00200 &amp; &lt;0.00200 &amp; 0.00200 \\ \hline &amp; &amp;</math></th><th>Lab Id:       <math>672171-001</math> <math>672171-002</math>         Field Id:       SS03       SS04         Depth:       .5- ft       .5- ft         Matrix:       SOIL       SOIL         Sampled:       09.09.2020 10:58       09.09.2020 16:16         Analyzed:       09.09.2020 22:23       09.09.2020 22:45         Units/RL:       mg/kg       RL         <math>&lt; 0.00200</math>       0.00200       <math>&lt; 0.00200</math> <math>&lt; 0.00200</math>       0.00200       <math>&lt; 0.00200</math> <math>&lt; 0.00200</math>       0.00200       <math>&lt; 0.00200</math> <math>&lt; 0.00200</math> <math>0.00200</math> <math>&lt; 0.00200</math> <math>&lt; 0.00200</math> <math>0.00200</math> <math>&lt; 0.00200</math> <math>&lt; 0.00200</math> <math>0.00200</math> <math>0.00200</math> <math>&lt; 0.00200</math></th><th>Lab Id:       <math>672171-001</math> <math>672171-002</math>         Field Id:       SS03       SS04         Depth:       .5- ft       .5- ft         Matrix:       SOIL       SOIL         Sampled:       09.09.2020 10:58       09.09.2020 16:16         Analyzed:       09.09.2020 22:23       09.09.2020 22:45         Units/RL:       mg/kg       RL       mg/kg          <math>&lt; 0.00200</math> <math>0.00200</math> <math>0.00200</math> <!--</th--><th>Lab Id:       <math>672171-001</math> <math>672171-002</math>         Field Id:       SS03       SS04         Depth:       .5- ft       .5- ft         Matrix:       SOIL       SOIL         Sampled:       09.09.2020 10:58       09.09.2020 11:35         Extracted:       09.09.2020 12:23       09.09.2020 22:45         Units/RL:       mg/kg       RL         <math>\sim 0.00200</math>       0.00200       -         <math>\sim 0.00200</math>       0.00200       -</th></th></t<>	$\begin{tabular}{ c c c c c } \hline Lab Id: & 672171-001 & 672171-00 \\ \hline Field Id: & SS03 & SS04 \\ \hline Depth: & .5- ft & .5- ft \\ \hline Matrix: & SOIL & SOIL \\ \hline Sampled: & 09.09.2020 & 10:58 & 09.09.2020 \\ \hline Sampled: & 09.09.2020 & 16:16 & 09.09.2020 \\ \hline Extracted: & 09.09.2020 & 22:23 & 09.09.2020 \\ \hline Matrix: & mg/kg & RL & mg/kg \\ \hline & 09.09.2020 & 0.00200 & <0.00200 \\ \hline & 0.00200 & 0.00200 & <0.00200 \\ \hline & < < < < < < < < < < < < < < < < < <$	$\begin{tabular}{ c c c c c } \hline Lab Id: & 672171-001 & 672171-002 \\ \hline Field Id: & SS03 & SS04 \\ \hline Depth: & .5- ft & .5- ft & SOIL \\ \hline Matrix: & SOIL & SOIL & SOIL \\ \hline Matrix: & SOIL & 09.09.2020 11:35 \\ \hline Sampled: & 09.09.2020 10:58 & 09.09.2020 11:35 \\ \hline Sampled: & 09.09.2020 16:16 & 09.09.2020 16:16 \\ \hline Analyzed: & 09.09.2020 22:23 & 09.09.2020 22:45 \\ \hline Units/RL: & mg/kg & RL & mg/kg & RL \\ \hline & << 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & & < 0.00200 & 0.00200 & <0.00200 & 0.00200 \\ \hline & & & & & & & & & & & & & & & & & &$	Lab Id: $672171-001$ $672171-002$ Field Id:       SS03       SS04         Depth:       .5- ft       .5- ft         Matrix:       SOIL       SOIL         Sampled:       09.09.2020 10:58       09.09.2020 16:16         Analyzed:       09.09.2020 22:23       09.09.2020 22:45         Units/RL:       mg/kg       RL $< 0.00200$ 0.00200 $< 0.00200$ $< 0.00200$ 0.00200 $< 0.00200$ $< 0.00200$ 0.00200 $< 0.00200$ $< 0.00200$ $0.00200$ $< 0.00200$ $< 0.00200$ $0.00200$ $< 0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$	Lab Id: $672171-001$ $672171-002$ Field Id:       SS03       SS04         Depth:       .5- ft       .5- ft         Matrix:       SOIL       SOIL         Sampled:       09.09.2020 10:58       09.09.2020 16:16         Analyzed:       09.09.2020 22:23       09.09.2020 22:45         Units/RL:       mg/kg       RL       mg/kg $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ $< 0.00200$ $0.00200$ $0.00200$ </th <th>Lab Id:       <math>672171-001</math> <math>672171-002</math>         Field Id:       SS03       SS04         Depth:       .5- ft       .5- ft         Matrix:       SOIL       SOIL         Sampled:       09.09.2020 10:58       09.09.2020 11:35         Extracted:       09.09.2020 12:23       09.09.2020 22:45         Units/RL:       mg/kg       RL         <math>\sim 0.00200</math>       0.00200       -         <math>\sim 0.00200</math>       0.00200       -</th>	Lab Id: $672171-001$ $672171-002$ Field Id:       SS03       SS04         Depth:       .5- ft       .5- ft         Matrix:       SOIL       SOIL         Sampled:       09.09.2020 10:58       09.09.2020 11:35         Extracted:       09.09.2020 12:23       09.09.2020 22:45         Units/RL:       mg/kg       RL $\sim 0.00200$ 0.00200       -

BRL - Below Reporting Limit

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

Jession Vramer

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## Analytical Report 672171

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### for

### LT Environmental, Inc.

**Project Manager: Dan Moir** 

PLU 442/443 SWD Battery

#### 012920122

#### 09.10.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

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09.10.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 672171 PLU 442/443 SWD Battery Project Address: Eddy County

#### 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 Eurofins Xenco, LLC Report Number(s) 672171. 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 Eurofins Xenco, LLC. 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. 672171 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

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### Sample Cross Reference 672171

#### LT Environmental, Inc., Arvada, CO

PLU 442/443 SWD Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS03	S	09.09.2020 10:58	.5 ft	672171-001
SS04	S	09.09.2020 11:35	.5 ft	672171-002

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### **CASE NARRATIVE**

Client Name: LT Environmental, Inc. Project Name: PLU 442/443 SWD Battery

 Project ID:
 012920122

 Work Order Number(s):
 672171

 Report Date:
 09.10.2020

 Date Received:
 09.09.2020

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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## **Certificate of Analytical Results 672171**

### LT Environmental, Inc., Arvada, CO

PLU 442/443 SWD Battery

Sample Id:	SS03		Matrix:	Soil		Date Received	1:09.09.202	0 15:50
Lab Sample Io	d: 672171-001		Date Coll	ected: 09.09.2020 10:58		Sample Depth		
Analytical Me	ethod: Chloride by EPA	300				Prep Method:	E300P	
Tech:	MAB					% Moisture:		
Analyst:	MAB		Date Prep	: 09.09.2020 16:30		Basis:	Wet Weig	;ht
Seq Number:	3136730							
Parameter		Cas Number	Result	RL	Units	Analysis D	ate Fla	g Dil
Chloride		16887-00-6	244	9.90	mg/kg	09.09.2020 1	8:25	1

Analytical Method: TPH by SW80	15 Mod					Prep Method: SW	8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 09	9.09.2020 17:30	)	Basis: We	t Weight	
Seq Number: 3136739								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	09.09.2020 22:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	09.09.2020 22:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	09.09.2020 22:19	U	1
Total GRO-DRO	PHC628	<50.1	50.1		mg/kg	09.09.2020 22:19	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	09.09.2020 22:19	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	111-85-3	120	%	70-135	09.09.2020 22:19	)	
o-Terphenyl	8	84-15-1	122	%	70-135	09.09.2020 22:19	)	

o-Terphenyl

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## **Certificate of Analytical Results 672171**

### LT Environmental, Inc., Arvada, CO

PLU 442/443 SWD Battery

Sample Id:SS03Lab Sample Id:672171-001	Matrix:SoilDate Collected:09.09.2020 10:58	Date Received:09.09.2020 15:50 Sample Depth: .5 ft
Analytical Method:BTEX by EPA 8Tech:MABAnalyst:MABSeq Number:3136727	021B Date Prep: 09.09.2020 16:16	Prep Method: SW5035A % 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	09.09.2020 22:23	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.09.2020 22:23	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.09.2020 22:23	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	09.09.2020 22:23	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.09.2020 22:23	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.09.2020 22:23	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.09.2020 22:23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	70-130	09.09.2020 22:23		
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.09.2020 22:23		

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## **Certificate of Analytical Results 672171**

### LT Environmental, Inc., Arvada, CO

PLU 442/443 SWD Battery

Sample Id:	SS04		Matrix:	Soil		Date Received	1:09.09	.2020 15:5	50
Lab Sample Io	l: 672171-002		Date Colle	ected: 09.09.2020 11:35		Sample Depth	:.5 ft		
Analytical Me	thod: Chloride by EPA	300				Prep Method:	E300]	Р	
Tech:	MAB					% Moisture:			
Analyst:	MAB		Date Prep	: 09.09.2020 16:30		Basis:	Wet V	Weight	
Seq Number:	3136730								
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate	Flag	Dil
Chloride		16887-00-6	748	9.98	mg/kg	09.09.2020 18	8:31		1

Analytical Method: TPH by SW801	5 Mod					Prep Method: SW	8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date Pr	rep: 09	0.09.2020 17:30		Basis: We	t Weight	
Seq Number: 3136739								
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	09.09.2020 23:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	09.09.2020 23:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	09.09.2020 23:20	U	1
Total GRO-DRO	PHC628	<50.0	50.0		mg/kg	09.09.2020 23:20	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	09.09.2020 23:20	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	115	%	70-135	09.09.2020 23:20	)	
o-Terphenyl		84-15-1	120	%	70-135	09.09.2020 23:20	)	

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## **Certificate of Analytical Results 672171**

#### LT Environmental, Inc., Arvada, CO

PLU 442/443 SWD Battery

Sample Id:SS04Lab Sample Id:672171-002	Matrix:	Soil	Date Received:09.09.2020 15:50		
	Date Collected	d: 09.09.2020 11:35	Sample Depth: .5 ft		
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3136727	Date Prep:	09.09.2020 16:16	Prep Method: % Moisture: Basis:	SW5035A Wet Weight	

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.09.2020 22:45	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.09.2020 22:45	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.09.2020 22:45	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	09.09.2020 22:45	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.09.2020 22:45	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.09.2020 22:45	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.09.2020 22:45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.09.2020 22:45		
4-Bromofluorobenzene		460-00-4	92	%	70-130	09.09.2020 22:45		

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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.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL	Below Reporting Limit.	ND Not Detected.			
RL	Reporting Limit				
MDL	Method Detection Limit	SDL Sample Det	ection Limit	LOD Limit of Detection	
PQL	Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitation	n
DL	Method Detection Limit				
NC	Non-Calculable				
SMP	Client Sample		BLK	Method Blank	
BKS/	LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/S	<b>D</b> Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NE	ELAC certification not offered	for this compound.			

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

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#### QC Summary 672171

## LT Environmental, Inc.

PLU 442/443 SWD Battery

Analytical Method:	Chloride by	7 EPA 30	0						Pr	ep Metho	d: E30	OOP	
Seq Number:	3136730				Matrix:	Solid				Date Pre	p: 09.0	09.2020	
MB Sample Id:	7711008-1-H	BLK		LCS Sar	nple Id:	7711008-1	I-BKS		LCSI	D Sample	Id: 771	1008-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	251	100	252	101	90-110	0	20	mg/kg	09.09.2020 14:28	
Analytical Method:	Chloride by	7 EPA 30	0						Pr	ep Metho	d: E30	00P	
Seq Number:	3136730				Matrix:	Soil				Date Pre	p: 09.0	09.2020	
Parent Sample Id:	672074-001			MS Sar	nple Id:	6/20/4-00	01 S		MS	D Sample	Id: 672	074-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		72.0	200	275	102	276	101	90-110	0	20	mg/kg	09.09.2020 14:44	
Analytical Method:	Chloride by	7 EPA 30	0			G .1			Pr	ep Metho	d: E30	00P	
Seq Number:	3130/30			MCC	Matrix:	S011	)2 C		MC	Date Pre	p: 09.0	19.2020	
Parent Sample Id:	6/216/-003			MS Sar	npie Ia:	0/210/-00	13 5		MSI	D Sample	10: 072	107-003 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		158	200	362	102	362	102	90-110	0	20	mg/kg	09.09.2020 17:46	
Analytical Method: Seq Number:	<b>TPH by SW</b> 3136739	/8015 M	od		Matrix:	Solid	DVG		Pr	ep Metho Date Pre	d: SW p: 09.0	8015P 09.2020	
MB Sample Id:	//11054-1-1	BLK		LCS Sal	ipie ia:	//11034-	I-DKS		LCSI	J Sample	IU: //I	1034-1-650	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	< 50.0	1000	944	94	861	86	70-135	9	35	mg/kg	09.09.2020 21:39	
Diesel Range Organics (	DRO)	<50.0	1000	1040	104	967	97	70-135	7	35	mg/kg	09.09.2020 21:39	
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSI %Re	) LCS c Flag	D Li g	mits	Units	Analysis Date	
1-Chlorooctane		99		1	28		116		70	-135	%	09.09.2020 21:39	
o-Terphenyl		99		1	27		110		70	-135	%	09.09.2020 21:39	
Analytical Mathade	TPH by SW	/8015 M	od						Dr	en Metho	d SW	8015P	
Seq Number:	3136739	0015 101	ou		Matrix:	Solid			11	Date Pre	p: 09.0	09.2020	
1				MB San	nple Id:	7711054-1	I-BLK				•		
Parameter				MB Result							Units	Analysis	Flag
Motor Oil Range Hydrocart	oons (MRO)			<50.0							ma/ka	09.09.2020 21:19	
				<50.0							ш <u>е</u> /кg		

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

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

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Final 1.000
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**Environment Testing** 

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QC Summary

### LT Environmental, Inc.

672171

PLU 442/443 SWD Battery

TPH by SW	/8015 M	od						Pı	ep Meth	od: SW	8015P	
3136739				Matrix:	Soil				Date Pr	ep: 09.0	9.2020	
672171-001			MS Sample Id: 672171-001 S MSD Sample Id: 672171-001 SD							171-001 SD		
	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
ns (GRO)	<49.8	995	894	90	916	92	70-135	2	35	mg/kg	09.09.2020 22:40	
DRO)	<49.8	995	983	99	1030	103	70-135	5	35	mg/kg	09.09.2020 22:40	
			N %]	IS Rec	MS Flag	MSD %Red	MSD c Flag	) Li	mits	Units	Analysis Date	
			1	31		134		70	-135	%	09.09.2020 22:40	
			1	21		126		70	-135	%	09.09.2020 22:40	
	TPH by SW 3136739 672171-001 ns (GRO) DRO)	<b>TPH by SW8015 M</b> 3136739 672171-001 <b>Parent</b> <b>Result</b> ns (GRO) <49.8 DRO) <49.8	TPH by SW8015 Mod           3136739           672171-001           Parent         Spike           Result         Amount           ns (GRO)         <49.8	TPH by SW8015 Mod           3136739         1           672171-001         MS Sam           Parent         Spike         MS           Result         Amount         Result           ns (GRO)         <49.8	TPH by SW8015 Mod         3136739       Matrix:         672171-001       MS Sample Id:         Parent       Spike       MS       MS         Result       Amount       Result       %Rec         ns (GRO)       <49.8	TPH by SW8015 Mod         3136739       Matrix: Soil         672171-001       MS Sample Id: 672171-00         Parent       Spike       MS       MSD         Result       Amount       Result       %Rec       Result         ns (GRO)       <49.8	TPH by SW8015 Mod         3136739       Matrix:       Soil         672171-001       MS Sample Id:       672171-001 S         Parent       Spike       MS       MS       MSD       MSD         Result       Amount       Result       %Rec       Result       %Rec         ns (GRO)       <49.8	TPH by SW8015 Mod         3136739       Matrix:       Soil         672171-001       MS Sample Id:       672171-001 S         Parent       Spike       MS       MS       MSD       MSD       Limits         Result       Amount       Result       %Rec       Result       %Rec         ns (GRO)       <49.8	TPH by SW8015 Mod       Pr         3136739       Matrix:       Soil         672171-001       MS Sample Id:       672171-001 S       MSI         Parent Result Amount       MS       MS       MSD       MSD       Limits       %RPD         ns (GRO)       <49.8	TPH by SW8015 Mod       Prep Meth         3136739       Matrix:       Soil       Date Pr         672171-001       MS Sample Id:       672171-001 S       MSD Sample       Sold       Sold       Date Pr         Parent       Spike       MS       MS       MSD       MSD       Limits       %RPD       RPD       Limit         ns (GRO)       <49.8	Prep Method: SW3         3136739       Matrix: Soil       Date Prep: 09.0         672171-001       MS Sample Id: 672171-001 S       MSD Sample Id: 672         Parent Result Amount       MS       MS       MSD Result %Rec       Limits       %RPD Limit       Limit         ns (GRO)       <49.8	Prep Method: SW8015 Mod       SW8015 P         3136739       Matrix:       Soil       Date Prep:       09.09.2020         672171-001       MS Sample Id:       672171-001 SD       MSD Sample Id:       672171-001 SD         Parent Result       Spike Amount       MS       MS       MSD Result       %Rep %Rep %Rep %Rep %Rep %Rep %Rep %Rep

BTEX by EPA 8021	В						P	rep Meth	od: SW	5035A					
3136727		]	Matrix:	Solid				Date Pr	ep: 09.0	9.2020					
7711007-1-BLK		LCS San	nple Id:	7711007-1	I-BKS		LCS	D Sample	e Id: 771	1007-1-BSD					
MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag				
< 0.00200	0.100	0.0965	97	0.0997	100	70-130	3	35	mg/kg	09.09.2020 14:34					
< 0.00200	0.100	0.0953	95	0.0983	98	70-130	3	35	mg/kg	09.09.2020 14:34					
< 0.00200	0.100	0.0900	90	0.0926	93	71-129	3	35	mg/kg	09.09.2020 14:34					
< 0.00400	0.200	0.181	91	0.186	93	70-135	3	35	mg/kg	09.09.2020 14:34					
< 0.00200	0.100	0.0901	90	0.0924	92	71-133	3	35	mg/kg	09.09.2020 14:34					
MB %Rec	MB Flag	L0 %]	CS Rec	LCS Flag	LCSI %Re	) LCSI c Flag	D Li	imits	Units	Analysis Date					
99		9	9		99		70	-130	%	09.09.2020 14:34					
88		8	89		87		70	-130	%	09.09.2020 14:34					
	BTEX by EPA 8021 3136727 7711007-1-BLK MB Result <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00200 MB %Rec 99 88	BTEX by EPA 8021B         3136727         7711007-1-BLK         MB       Spike         Result       Amount         <0.00200	BTEX by EPA 8021B           3136727         IIII           7711007-1-BLK         LCS Sam           MB         Spike         LCS           (0.00200         0.100         0.0965           <0.00200	BTEX by EPA 8021B         3136727       ✓Matrix:         7711007-1-BLK       LCS Sample Id:         MB       Spike       LCS       LCS         0.00200       0.100       0.0965       97         <0.00200	BTEX by EPA 8021B         3136727       Matrix: Solid         7711007-1-BLK       LCS Sample Id: 7711007-1         MB       Spike       LCS       LCS         Result       Amount       Result       %Rec       LCSD         <0.00200	BTEX by EPA 8021B         3136727       Matrix:       Solid         7711007-1-BLK       LCS Sample Id:       7711007-1-BKS         MB       Spike       LCS       LCS       LCS       LCSD       LCSD          MB       Spike       LCS       LCS       LCSD       LCSD       LCSD          MB       Amount       Result       %Rec       LCSD       Result       %Rec           0.00200       0.100       0.0965       97       0.0997       100            0.00900       90       0.0926       93             0.00200       0.100       0.0901       90       0.0924       92          MB       MB       LCS       LCS       LCSI       %Rec          MB       MB       %Rec       Flag       %Rec	BTEX by EPA 8021B         3136727       Matrix:       Solid         7711007-1-BLK       LCS Sample Id       7711007-1-BKS         MB       Spike       LCS       LCS       LCSD       LCSD       LCSD       LCSD         <0.00200	BTEX by EPA 8021B       PA         3136727       Matrix:       Solid       501d         7711007-1-BLK       LCS Sample Id:       7711007-1-BKS       LCS       LCS <t< td=""><td>BTEX by EPA 8021B       Prep Meth         3136727       Matrix:       Solid       Date Pr         7711007-1-BLK       LCS Sample Id:       7711007-1-BKS       LCSD       Sample Id:       7711007-1-BKS       LCSD       Sample Id:       Total Sample Id:</td><td>Prep Method:       SW         3136727       Matrix:       Solid       Date Prep:       09.00         7711007-1-BLK       LCS Sample Id:       7711007-1-BKS       LCSD Sample Id:       Offer the Prep:       09.00         MB Spike LCS LCSD Meet       LCSD LCSD LCSD Meet       LImits       %Rep Prep:       09.00         <math>&lt; 0.00200</math>       0.100       <math>0.0953</math>       Prep Method:       %       %       LCSD       LCSD       LCSD       LImits       %       <th %<="" <="" colspan="4" td=""><td>Prep Method:       SW5035A         3136727       Matrix:       Solid       Date Prep:       <math>09.09.2020</math>         7711007-1-BLK       LCS Sample Id       T1007-1-BKS       LCSD Sample Id       <math>7711007-1</math>-BSD         MB Spike Accs LCS Mesult       <math>7711007-1</math>-BKS       LCSD Matrix:       <math>771107-1</math>-BSD         MB Spike Accs Mesult       <math>60.00200</math> <math>0.100</math> <math>0.0965</math> <math>7711007-1</math>-BKS       LCSD Matrix       Analysis Date         <math>&lt; MB</math> Maount       <math>CCS</math> <math>LCSD Meen       <math>V</math>       Matrix:       <math>0.0907</math> <math>0.07130</math> <math>3</math> <math>35</math> <math>mg/kg</math> <math>09.09.202014:34</math> <math>&lt; 0.00200</math> <math>0.100</math> <math>0.0901</math>       90       <math>0.0924</math> <math>92</math> <math>71-133</math> <math>35</math> <math>mg/kg</math> <math>09.09.202014:34</math> <math>MB</math> MB       MB MB       <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math></math></td></th></td></t<>	BTEX by EPA 8021B       Prep Meth         3136727       Matrix:       Solid       Date Pr         7711007-1-BLK       LCS Sample Id:       7711007-1-BKS       LCSD       Sample Id:       7711007-1-BKS       LCSD       Sample Id:       Total Sample Id:	Prep Method:       SW         3136727       Matrix:       Solid       Date Prep:       09.00         7711007-1-BLK       LCS Sample Id:       7711007-1-BKS       LCSD Sample Id:       Offer the Prep:       09.00         MB Spike LCS LCSD Meet       LCSD LCSD LCSD Meet       LImits       %Rep Prep:       09.00 $< 0.00200$ 0.100 $0.0953$ Prep Method:       %       %       LCSD       LCSD       LCSD       LImits       % <th %<="" <="" colspan="4" td=""><td>Prep Method:       SW5035A         3136727       Matrix:       Solid       Date Prep:       <math>09.09.2020</math>         7711007-1-BLK       LCS Sample Id       T1007-1-BKS       LCSD Sample Id       <math>7711007-1</math>-BSD         MB Spike Accs LCS Mesult       <math>7711007-1</math>-BKS       LCSD Matrix:       <math>771107-1</math>-BSD         MB Spike Accs Mesult       <math>60.00200</math> <math>0.100</math> <math>0.0965</math> <math>7711007-1</math>-BKS       LCSD Matrix       Analysis Date         <math>&lt; MB</math> Maount       <math>CCS</math> <math>LCSD Meen       <math>V</math>       Matrix:       <math>0.0907</math> <math>0.07130</math> <math>3</math> <math>35</math> <math>mg/kg</math> <math>09.09.202014:34</math> <math>&lt; 0.00200</math> <math>0.100</math> <math>0.0901</math>       90       <math>0.0924</math> <math>92</math> <math>71-133</math> <math>35</math> <math>mg/kg</math> <math>09.09.202014:34</math> <math>MB</math> MB       MB MB       <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math></math></td></th>	<td>Prep Method:       SW5035A         3136727       Matrix:       Solid       Date Prep:       <math>09.09.2020</math>         7711007-1-BLK       LCS Sample Id       T1007-1-BKS       LCSD Sample Id       <math>7711007-1</math>-BSD         MB Spike Accs LCS Mesult       <math>7711007-1</math>-BKS       LCSD Matrix:       <math>771107-1</math>-BSD         MB Spike Accs Mesult       <math>60.00200</math> <math>0.100</math> <math>0.0965</math> <math>7711007-1</math>-BKS       LCSD Matrix       Analysis Date         <math>&lt; MB</math> Maount       <math>CCS</math> <math>LCSD Meen       <math>V</math>       Matrix:       <math>0.0907</math> <math>0.07130</math> <math>3</math> <math>35</math> <math>mg/kg</math> <math>09.09.202014:34</math> <math>&lt; 0.00200</math> <math>0.100</math> <math>0.0901</math>       90       <math>0.0924</math> <math>92</math> <math>71-133</math> <math>35</math> <math>mg/kg</math> <math>09.09.202014:34</math> <math>MB</math> MB       MB MB       <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math> <math>LCS</math></math></td>				Prep Method:       SW5035A         3136727       Matrix:       Solid       Date Prep: $09.09.2020$ 7711007-1-BLK       LCS Sample Id       T1007-1-BKS       LCSD Sample Id $7711007-1$ -BSD         MB Spike Accs LCS Mesult $7711007-1$ -BKS       LCSD Matrix: $771107-1$ -BSD         MB Spike Accs Mesult $60.00200$ $0.100$ $0.0965$ $7711007-1$ -BKS       LCSD Matrix       Analysis Date $< MB$ Maount $CCS$ $LCSD Meen       V       Matrix:       0.0907 0.07130 3 35 mg/kg 09.09.202014:34 < 0.00200 0.100 0.0901       90       0.0924 92 71-133 35 mg/kg 09.09.202014:34 MB MB       MB MB       LCS LCS LCS LCS LCS LCS LCS LCS$

Analytical Method:	BTEX by EPA 8021	B						P	rep Meth	od: SW	5035A	
Seq Number:	3136727			Matrix:	Soil				Date Pr	ep: 09.0	9.2020	
Parent Sample Id:	672074-001		MS Sar	nple Id:	672074-00	01 S		MS	D Sampl	e Id: 672	074-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.123	123	0.114	115	70-130	8	35	mg/kg	09.09.2020 15:19	
Toluene	< 0.00200	0.0998	0.121	121	0.112	113	70-130	8	35	mg/kg	09.09.2020 15:19	
Ethylbenzene	< 0.00200	0.0998	0.114	114	0.105	106	71-129	8	35	mg/kg	09.09.2020 15:19	
m,p-Xylenes	< 0.00399	0.200	0.229	115	0.211	106	70-135	8	35	mg/kg	09.09.2020 15:19	
o-Xylene	< 0.00200	0.0998	0.112	112	0.103	104	71-133	8	35	mg/kg	09.09.2020 15:19	
Surrogate			N %	1S Rec	MS Flag	MSD %Re	o MSI c Flag	D Li g	imits	Units	Analysis Date	
1,4-Difluorobenzene			ç	99		99		70	-130	%	09.09.2020 15:19	

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

4-Bromofluorobenzene

 $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

90

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

.

09.09.2020 15:19

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89

70-130

%

h hay	Relinquished by: (Signa	Service: Signature of this document service. Xenco will be liable only Xenco. A minimum charge of \$74	Total 200.7 / 6010 Circle Method(s) and N								SS04	SS03	Sample Identificatio	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone: (432)	City, State ZIP: Midla	Address: 3300	Company Name: LT Er	Project Manager: Dan M	
Clo	iture)	and relinquishment of s / for the cost of samples 5.00 will be applied to ea	200.8 / 6020: Metal(s) to be ana					2,	1		s	s	on Matrix	Yes No NIA	Yes M NIA	Yes No	0.4/0.2	Temp Blank:	William Ma	Eddy	01292012	PLU 442/443 SV	236-3849	nd, Tx 79705	North A Street	nvironmental, Inc.,	Moir	
e Cliffen	Received by: (Sigi	amples constitutes a va and shall not assume a ach project and a charge	8RCRA lyzed TCLP /	-			2	1			9/9/2020 11:3	9/9/2020 10:5	Date Tim Sampled Samp	Total Contain	Correction Fa	TNN-	Thermor	Kes No We	ther		22	VD Battery	-			Permian office		Hobbs,NM (5
<u> </u>	nature)	lid purchase order from ( iny responsibility for any of \$5 for each sample su	13PPM Texas 11 SPLP 6010: 8RCI				Ø	1	/		5 .5'	.5	e Depth led	ners: Q	ictor: -0.2	ECO	neter ID	tice: Type No	Due Date:	Rush:	Routine	Turn Around	mail: wmather@lten	City, State ZIF	Address:	Company Nan	Bill to: (if differen	louston,TX (281) 240-4 Midland,TX (432-704-5 75-392-7550) Phoenix
19-20 15:50	Date/Time	client company to Xenco, it losses or expenses incurre ubmitted to Xenco, but not	Al Sb As Ba Be RA Sb As Ba Be					1			1 x x x	1 x x x	Numbo TPH (EI BTEX (I Chlorid	er of PA 80 EPA ( e (EP	Co (15) ()=80	021)	iners	3		_			<u>v.com, dmoir@ltenv.c</u>			ne: XTO Energy	nt) Kyle Littrell	200 Dallas,TX (214) 902- 5440) EL Paso,TX (915)5 ,AZ (480-355-0900) Atlar
A N	Relinquished by: (Signatu	ts affiliates and subcontractors. It assigned by the client if such losses are due to analyzed. These terms will be enforced	B Cd Ca Cr Co Cu Fe Pt Cd Cr Co Cu Pb Mn Mo N			/											/					ANALYSIS REQL	mo					-0300 San Antonio, TX (210) 509-333 385-3443 Lubbock, TX (806)794-1296 nta, GA (770-449-8800) Tampa, FL (81
	ure) Received by: (S	ns standard terms and conditions o circumstances beyond the control unless previously negotiated.	o Mg Mn Mo Ni K Se Ag S li Se Ag Ti U		/																	JEST	Deliverables: EDD	Reporting:Level IIevel III	State of Project:	Program: UST/PST	Work	4 13-620-2000) www.xen
	ignature) D		3iO2 Na Sr TI Sn U 1631 / 245.1 / 7470								Dis	Disc	Sample C	l Al starts the d lab, if receiv								Work Or	ADaPT    Other	ST/UST RP	[	Frownfields [RC	Order Comments	ico.com Page
	)ate/Time		V Zn /7471 : Hg							001010	crete	crete	omments	ed by 4:30pm								der Notes		Libvel IV	ŗ	1) perfund	(	of /

. Released to Imaging: 2/22/2021 3:29:00 PM

Final 1.000

### **Eurofins Xenco, LLC**

### Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature R	ange: 0 - 6 degC
Date/ Time Received: 09.09.2020 03.50.00 PM	Air and Metal samples Acc	ceptable Range: Ambient
Work Order #: 672171	Temperature Measuring de	evice used : T_NM_007
Sample Recei	pt Checklist	Comments
#1 *Temperature of cooler(s)?	.2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 09.09.2020

Checklist reviewed by: Jessica Kramer

Date: 09.10.2020

eurofins Environment Testing Xenco

Project Id:012920122Contact:Dan Moir

Project Location: Eddy County

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### Certificate of Analysis Summary 672175

LT Environmental, Inc., Arvada, CO

#### Project Name: PLU 442/443 SWD Battery

 Date Received in Lab:
 Wed 09.09.2020 15:50

 Report Date:
 09.10.2020 11:15

Project Manager: Jessica Kramer

	Lab Id:	672175-0	01	672175-0	02		
Analysis Reavested	Field Id:	FS01		FS02			
marysis nequesica	Depth:	2- ft		2- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	09.09.2020	10:54	09.09.2020	10:56		
BTEX by EPA 8021B	Extracted:	09.09.2020	16:16	09.09.2020	16:16		
	Analyzed:	09.09.2020	23:53	09.10.2020	00:15		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00201	0.00201	< 0.00198	0.00198		
Toluene		< 0.00201	0.00201	< 0.00198	0.00198		
Ethylbenzene		< 0.00201	0.00201	< 0.00198	0.00198		
m,p-Xylenes		< 0.00402	0.00402	< 0.00397	0.00397		
o-Xylene		< 0.00201	0.00201	< 0.00198	0.00198		
Total Xylenes		< 0.00201	0.00201	< 0.00198	0.00198		
Total BTEX		< 0.00201	0.00201	< 0.00198	0.00198		
Chloride by EPA 300	Extracted:	09.09.2020	16:30	09.09.2020	16:30		
	Analyzed:	09.09.2020	18:48	09.09.2020	18:54		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		519	10.0	1720	50.4		
TPH by SW8015 Mod	Extracted:	09.09.2020	17:30	09.09.2020	17:30		
	Analyzed:	09.10.2020	00:21	09.10.2020	00:41		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.0	50.0		
Diesel Range Organics (DRO)		<50.3	50.3	77.0	50.0		
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.0	50.0		
Total GRO-DRO		<50.3	50.3	77.0	50.0		
Total TPH		<50.3	50.3	77.0	50.0		

BRL - Below Reporting Limit

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

Jession Vramer

Page 1 of 14

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## Analytical Report 672175

### for

### LT Environmental, Inc.

**Project Manager: Dan Moir** 

PLU 442/443 SWD Battery

#### 012920122

#### 09.10.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

09.10.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 672175 PLU 442/443 SWD Battery Project Address: Eddy County

#### 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 Eurofins Xenco, LLC Report Number(s) 672175. 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 Eurofins Xenco, LLC. 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. 672175 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

Environment Testing Xenco

### Sample Cross Reference 672175

#### LT Environmental, Inc., Arvada, CO

PLU 442/443 SWD Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	09.09.2020 10:54	2 ft	672175-001
FS02	S	09.09.2020 10:56	2 ft	672175-002

Environment Testing Xenco

### **CASE NARRATIVE**

Client Name: LT Environmental, Inc. Project Name: PLU 442/443 SWD Battery

 Project ID:
 012920122

 Work Order Number(s):
 672175

 Report Date:
 09.10.2020

 Date Received:
 09.09.2020

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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## **Certificate of Analytical Results 672175**

### LT Environmental, Inc., Arvada, CO

PLU 442/443 SWD Battery

Sample Id:	FS01		Matrix:	Soil		Date Received	:09.09.2	2020 15:5	50
Lab Sample Io	1: 672175-001		Date Coll	ected: 09.09.2020 10:54		Sample Depth:	2 ft		
Analytical Me	thod: Chloride by EPA	300				Prep Method:	E300P		
Tech:	MAB					% Moisture:			
Analyst:	MAB		Date Prep	o: 09.09.2020 16:30		Basis:	Wet W	eight	
Seq Number:	3136730								
Parameter		Cas Number	Result	RL	Units	Analysis Da	ite	Flag	Dil
Chloride		16887-00-6	519	10.0	mg/kg	09.09.2020 18	3:48		1

Analytical Method: TPH by SW8	015 Mod					Prep Method: SW	8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date Pr	ep: 09	.09.2020 17:30		Basis: We	t Weight	
Seq Number: 3136739								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	09.10.2020 00:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3		mg/kg	09.10.2020 00:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3		mg/kg	09.10.2020 00:21	U	1
Total GRO-DRO	PHC628	<50.3	50.3		mg/kg	09.10.2020 00:21	U	1
Total TPH	PHC635	<50.3	50.3		mg/kg	09.10.2020 00:21	U	1
Surrogate	C	Cas Number	% Recover	y Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	109	%	70-135	09.10.2020 00:2	l	
o-Terphenyl	8	4-15-1	109	%	70-135	09.10.2020 00:2	l	

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## **Certificate of Analytical Results 672175**

### LT Environmental, Inc., Arvada, CO

PLU 442/443 SWD Battery

Sample Id:	<b>FS01</b>	Matrix:	Soil	Date Received:09.09.2020 15:50				
Lab Sample Id	d: 672175-001	Date Collected	l: 09.09.2020 10:54	Sample Depth: 2 ft				
Analytical Me Tech: Analyst: Seq Number:	othod: BTEX by EPA 8021B MAB MAB 3136727	Date Prep:	09.09.2020 16:16	Prep Method: % Moisture: Basis:	SW5035A Wet Weight			

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	09.09.2020 23:53	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	09.09.2020 23:53	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	09.09.2020 23:53	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	09.09.2020 23:53	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	09.09.2020 23:53	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	09.09.2020 23:53	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	09.09.2020 23:53	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.09.2020 23:53		
4-Bromofluorobenzene		460-00-4	87	%	70-130	09.09.2020 23:53		

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## **Certificate of Analytical Results 672175**

### LT Environmental, Inc., Arvada, CO

PLU 442/443 SWD Battery

Sample Id:	FS02		Matrix:	Soil			Date Receive	1:09.0	9.2020 15	:50
Lab Sample Io	l: 672175-002		Date Col	lected: 09.0	9.2020 10:56	56 Sample Depth: 2 ft				
Analytical Me	thod: Chloride by EPA	300					Prep Method:	E300	)P	
Tech:	MAB						% Moisture:			
Analyst:	MAB		Date Pre	p: 09.0	9.2020 16:30		Basis:	Wet	Weight	
Seq Number:	3136730									
Parameter		Cas Number	Result	RL		Units	Analysis D	ate	Flag	Dil
Chloride		16887-00-6	1720	50.4		mg/kg	09.09.2020 1	8:54		5

Analytical Method: TPH by SW80	15 Mod					Prep Method: SV	W8015P			
Tech: DTH					% Moisture:					
Analyst: DTH		Date P	Date Prep: 09.09.2020 17:30		)	Basis: W	et Weight	Veight		
Seq Number: 3136739										
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	09.10.2020 00:41	U	1		
Diesel Range Organics (DRO)	C10C28DRO	77.0	50.0		mg/kg	09.10.2020 00:41		1		
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	09.10.2020 00:41	U	1		
Total GRO-DRO	PHC628	77.0	50.0		mg/kg	09.10.2020 00:41		1		
Total TPH	PHC635	77.0	50.0		mg/kg	09.10.2020 00:41		1		
Surrogate	(	Cas Number	% Recover	y Units	Limits	Analysis Dat	e Flag			
1-Chlorooctane	1	11-85-3	105	%	70-135	09.10.2020 00:	41			
o-Terphenyl	8	84-15-1	109	%	70-135	09.10.2020 00:	41			

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## **Certificate of Analytical Results 672175**

### LT Environmental, Inc., Arvada, CO

PLU 442/443 SWD Battery

Sample Id:	<b>FS02</b>	Matrix:	Soil	Date Received:09.09.2020 15:50			
Lab Sample Id	1: 672175-002	Date Collected	d: 09.09.2020 10:56	Sample Depth: 2 ft			
Analytical Me Tech: Analyst: Seq Number:	thod: BTEX by EPA 8021B MAB MAB 3136727	Date Prep:	09.09.2020 16:16	Prep Method: % Moisture: Basis:	SW5035A Wet Weight		

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	09.10.2020 00:15	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	09.10.2020 00:15	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	09.10.2020 00:15	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	09.10.2020 00:15	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	09.10.2020 00:15	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	09.10.2020 00:15	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	09.10.2020 00:15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	90	%	70-130	09.10.2020 00:15		
1,4-Difluorobenzene		540-36-3	101	%	70-130	09.10.2020 00:15		

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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.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL	Below Reporting Limit.	ND Not Detected.			
RL	Reporting Limit				
MDL	Method Detection Limit	SDL Sample Det	ection Limit	LOD Limit of Detection	
PQL	Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitation	n
DL	Method Detection Limit				
NC	Non-Calculable				
SMP	Client Sample		BLK	Method Blank	
BKS/	LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	catory Control Sample Duplicate
MD/S	<b>D</b> Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NE	ELAC certification not offered	for this compound.			

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

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#### QC Summary 672175

## LT Environmental, Inc.

PLU 442/443 SWD Battery

Analytical Method:	Chloride by	EPA 30	0						Prep Method: E300P				
Seq Number:	3136730				Matrix:	Solid				Date Pre	ep: 09.0	09.2020	
MB Sample Id:	7711008-1-H	BLK		LCS Sar	nple Id:	7711008-1	I-BKS		LCSI	D Sample	d: 771	1008-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	251	100	252	101	90-110	0	20	mg/kg	09.09.2020 14:28	
Analytical Method:	Chloride by	y EPA 30	0						Pr	ep Metho	od: E30	00P	
Seq Number:	3136730				Matrix:	Soil				Date Pre	ep: 09.0	09.2020	
Parent Sample Id:	672074-001			MS Sar	nple Id:	672074-00	01 S		MSI	D Sample	e Id: 672	074-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		72.0	200	275	102	276	101	90-110	0	20	mg/kg	09.09.2020 14:44	
Analytical Method: Sea Number:	<b>Chloride by</b> 3136730	v EPA 30	0		Matrix	Soil			Pr	ep Metho Date Pre	od: E30	00P 09 2020	
Parent Sample Id	672167-003			MS Sar	nple Id:	672167-00	)3 S		MS	D Sample	e Id: 672	167-003 SD	
Parameter	072107 003	Parent	Spike Amount	MS Result	MS %Rec	MSD Bogult	MSD % Boo	Limits	%RPD	RPD Limit	Units	Analysis	Flag
Chloride		158	200	362	102	362	102	90-110	0	20	mg/kg	09.09.2020 17:46	
Analytical Method:	TPH by SW	78015 M	od						Dr	en Metho	od: SW	8015P	
Seq Number:	3136739	0015 101	Ju		Matrix:	Solid			11	Date Pre	ep: 09.0	)9.2020	
MB Sample Id:	7711054-1-I	BLK		LCS Sar	nple Id:	7711054-1	I-BKS		LCSI	D Sample	Id: 771	1054-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	< 50.0	1000	944	94	861	86	70-135	9	35	mg/kg	09.09.2020 21:39	
Diesel Range Organics (	(DRO)	<50.0	1000	1040	104	967	97	70-135	7	35	mg/kg	09.09.2020 21:39	
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSI %Re	) LCSI c Flag	D Li g	mits	Units	Analysis Date	
1-Chlorooctane		99		1	28		116		70	-135	%	09.09.2020 21:39	
o-Terphenyl		99		1	27		110		70	-135	%	09.09.2020 21:39	
Analytical Method: Seq Number:	<b>TPH by SW</b> 3136739	78015 M	od	MB San	Matrix: nple Id:	Solid 7711054-1	I-BLK		Pr	ep Metho Date Pre	od: SW ep: 09.0	8015P 09.2020	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocarl	oons (MRO)			<50.0							mg/kg	09.09.2020 21:19	

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

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

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#### QC Summary 672175

### LT Environmental, Inc.

PLU 442/443 SWD Battery

Analytical Method:	TPH by SW	/8015 M	od						Pi	rep Meth	od: SW	8015P	
Seq Number:	3136739			]	Matrix:	Soil				Date Pr	ep: 09.0	9.2020	
Parent Sample Id:	672171-001			MS San	nple Id:	672171-00	01 S		MS	D Sample	e Id: 672	171-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ns (GRO)	<49.8	995	894	90	916	92	70-135	2	35	mg/kg	09.09.2020 22:40	
Diesel Range Organics (I	DRO)	<49.8	995	983	99	1030	103	70-135	5	35	mg/kg	09.09.2020 22:40	
Surrogate				N %]	1S Rec	MS Flag	MSD %Red	o MSD c Flag	) Li g	imits	Units	Analysis Date	
1-Chlorooctane				1	31		134		70	-135	%	09.09.2020 22:40	
o-Terphenyl				1	21		126		70	-135	%	09.09.2020 22:40	

Analytical Method:	BTEX by EPA 8021	В						Pı	ep Meth	od: SW	5035A	
Seq Number:	3136727		]	Matrix:	Solid				Date Pr	ep: 09.0	9.2020	
MB Sample Id:	7711007-1-BLK		LCS San	nple Id:	7711007-1	I-BKS		LCS	D Sample	e Id: 771	1007-1-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	0.0965	97	0.0997	100	70-130	3	35	mg/kg	09.09.2020 14:34	
Toluene	< 0.00200	0.100	0.0953	95	0.0983	98	70-130	3	35	mg/kg	09.09.2020 14:34	
Ethylbenzene	< 0.00200	0.100	0.0900	90	0.0926	93	71-129	3	35	mg/kg	09.09.2020 14:34	
m,p-Xylenes	< 0.00400	0.200	0.181	91	0.186	93	70-135	3	35	mg/kg	09.09.2020 14:34	
o-Xylene	< 0.00200	0.100	0.0901	90	0.0924	92	71-133	3	35	mg/kg	09.09.2020 14:34	
Surrogate	MB %Rec	MB Flag	L0 %]	CS Rec	LCS Flag	LCSI %Re	) LCSI c Flag	) Li	mits	Units	Analysis Date	
1,4-Difluorobenzene	99		9	9		99		70	-130	%	09.09.2020 14:34	
4-Bromofluorobenzene	88		8	39		87		70	-130	%	09.09.2020 14:34	

Analytical Method:	BTEX by EPA 8021						P	rep Meth	od: SW	5035A		
Seq Number:	3136727			Matrix:	Soil				Date Pr	ep: 09.0	9.2020	
Parent Sample Id:	672074-001		MS Sar	nple Id:	672074-00	01 S		MS	D Sampl	e Id: 672	074-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.123	123	0.114	115	70-130	8	35	mg/kg	09.09.2020 15:19	
Toluene	< 0.00200	0.0998	0.121	121	0.112	113	70-130	8	35	mg/kg	09.09.2020 15:19	
Ethylbenzene	< 0.00200	0.0998	0.114	114	0.105	106	71-129	8	35	mg/kg	09.09.2020 15:19	
m,p-Xylenes	< 0.00399	0.200	0.229	115	0.211	106	70-135	8	35	mg/kg	09.09.2020 15:19	
o-Xylene	< 0.00200	0.0998	0.112	112	0.103	104	71-133	8	35	mg/kg	09.09.2020 15:19	
Surrogate			N %	1S Rec	MS Flag	MSD %Re	o MSI c Flag	D L g	imits	Units	Analysis Date	
1,4-Difluorobenzene			ç	99		99		70	-130	%	09.09.2020 15:19	

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

4-Bromofluorobenzene

 $\begin{array}{l} [D] = 100^{*}(C\text{-}A) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-}E) \ / \ (C\text{+}E) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

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09.09.2020 15:19

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70-130

%

	000	MAL	Relinquished by:	otice: Signature of this de I service. Xenco will be lia Xenco. A minimum char	Total 200.7 / 60 Circle Method(s)						FS02	FS01	Sample Ident	Sample Custody Seal:	Cooler Custody Seals.	Received Intact:	Temperature (°C):	SAMPLE RECEI	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:	Company Name:	Project Manager:	
		2	(Signature)	ocument and relinquishn able only for the cost of ge of \$75.00 will be appl	10 200.8 / 6020 ) and Metal(s) to b						s	S	ification	s: Yes Wo	Yes No	N Q	0.4/0.	IPT Temp E	Willia		012	PLU 442/44	(432) 236-3849	Midland, Tx 79705	3300 North A Stre	LT Environmental	Dan Moir	BORATORIE
		Cice Ciffo	Received b	nent of samples constitues samples and shall not a lied to each project and	): 8R e analyzed T		00				9/9/2020	9/9/2020	atrix Date Sampled	N/A Total	N/A Correc	· T-NI	u T	Blank: Was No	am Mather	Eddy	920122	43 SWD Battery		5	et	, Inc., Permian off		Hobbs
		7	y: (Signature)	utes a valid purchase orc assume any responsibilit a charge of \$5 for each s	CRA 13PPM Te		they .		1		10:56 2'	10:54 2'	Time Dept Sampled	Containers:	tion Factor: -0.6	f00-1	hermometer ID	Wet Ice: Was	Due Date:	Rush:	Routine	Turn Arou	Email: wmathe	City, St	Address	ice Compa	Bill to: (	Houston, TX (281 Midland, TX (43; 5,NM (575-392-7550) F
		0.9. A	Date/T	ter from client company y for any losses or expe sample submitted to Xen	xas 11 Al Sb As 8RCRA Sb As	C	X	0			1 x 3	1 x	S Numb TPH (E	er of PA 80	Co 15)	ntai	ners	No			R	nd	r@ltenv.com, dmoir	ate ZIP:	<i>y</i>	ny Name: XTO E	if different) Kyle Li	) 240-4200 Dallas,TX ( 2-704-5440) EL Paso, hoenix,AZ (480-355-09
>	4	5:00 2	ime 50	to Xenco, its affilianses incurred by t co, but not analyz	Ba Be B C Ba Be Cd (						××	× ×	BTEX ( Chlorid	EPA 0	=80 A 31	00.0	)		-	_			@ltenv.com			nergy	ttrell	(214) 902-0300 ; TX (915)585-344 900) Atlanta,GA
			Relinquished by: (Signatu	ates and subcontractors. It assign the client if such losses are due to red. These terms will be enforced u	Cd Ca Cr Co Cu Fe Pb Cr Co Cu Pb Mn Mo N																	ANALYSIS REQU						San Antonio, TX (210) 509-3334 3 Lubbock, TX (806)794-1296 (770-449-8800) Tampa, FL (813
			re) Receive	s standard terms and condi circumstances beyond the c nless previously negotiated	Mg Mn Mo Ni K S i Se Ag Ti U	/																EST	Deliverables: EDD	Reporting:Level II	State of Project:	Program: UST/PST		-620-2000) <u>M</u>
			₃d by: (Signature)	ontrol	Se Ag SiO2 Na S 1631 / :										TA	-		_		-			ADaPT [			RP prownfield	Work Order Com	ww.xenco.com
			Date/Time		r TI Sn U V Zn 245.1/7470 /7471 : Hg						Composite	Composite	Sample Comments	lab, if received by 4:30pm	T state the day received by t							Work Order Notes	] Other:			s IRC Derfund	ments	Page of

# **Eurofins Xenco, LLC**

### Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature F	Range: 0 - 6 degC
Date/ Time Received: 09.09.2020 03.50.00 PM	Air and Metal samples Acc	ceptable Range: Ambient
Work Order #: 672175	Temperature Measuring de	evice used: T_NM_007
Sample Rece	ipt Checklist	Comments
#1 *Temperature of cooler(s)?	.2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 09.09.2020

Checklist reviewed by: Jessica Kramer

Date: 09.10.2020

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Project Id: 012920122 Dan Moir **Contact:** 

Eddy County **Project Location:** 

# Certificate of Analysis Summary 673497

LT Environmental, Inc., Arvada, CO

#### Project Name: PLU 442-443 SWD Battery

Date Received in Lab: Thu 09.24.2020 12:22 **Report Date:** 09.28.2020 14:18

Project Manager: Jessica Kramer

	Lab Id:	673497-0	01	673497-0	02	673497-0	003		
Analysis Requested	Field Id:	FS02A		FS03		SW01			
marysis Requested	Depth:	3- ft		1- ft		0-3 ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	09.24.2020 (	09:44	09.24.2020 (	09:46	09.24.2020	10:03		
BTEX by EPA 8021B	Extracted:	09.25.2020	15:39	09.25.2020	15:39	09.25.2020	15:39		
	Analyzed:	09.26.2020 (	09:31	09.26.2020 (	09:53	09.26.2020	10:16		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00198	0.00198		
Toluene		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00198	0.00198		
Ethylbenzene		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00198	0.00198		
m,p-Xylenes		< 0.00403	0.00403	< 0.00403	0.00403	< 0.00396	0.00396		
o-Xylene		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00198	0.00198		
Total Xylenes		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00198	0.00198		
Total BTEX		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00198	0.00198		
Chloride by EPA 300	Extracted:	09.24.2020	16:44	09.24.2020	16:44	09.24.2020	16:44		
	Analyzed:	09.24.2020	23:35	09.24.2020 2	23:41	09.24.2020	23:47		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		126	9.96	87.4	10.0	378	10.0		
TPH by SW8015 Mod	Extracted:	09.25.2020	10:30	09.25.2020	12:00	09.25.2020	12:00		
	Analyzed:	09.25.2020	14:01	09.25.2020	14:21	09.25.2020	14:42		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.0	50.0	<50.1	50.1		
Diesel Range Organics (DRO)		<50.2	50.2	<50.0	50.0	<50.1	50.1		
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.0	50.0	<50.1	50.1		
Total GRO-DRO		<50.2	50.2	<50.0	50.0	<50.1	50.1		
Total TPH		<50.2	50.2	<50.0	50.0	<50.1	50.1		

BRL - Below Reporting Limit

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

Jession Vramer

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# Analytical Report 673497

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### for

### LT Environmental, Inc.

**Project Manager: Dan Moir** 

PLU 442-443 SWD Battery

#### 012920122

#### 09.28.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

09.28.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **673497 PLU 442-443 SWD Battery** Project Address: Eddy County

#### 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 Eurofins Xenco, LLC Report Number(s) 673497. 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 Eurofins Xenco, LLC. 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. 673497 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

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### Sample Cross Reference 673497

#### LT Environmental, Inc., Arvada, CO

PLU 442-443 SWD Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS02A	S	09.24.2020 09:44	3 ft	673497-001
FS03	S	09.24.2020 09:46	1 ft	673497-002
SW01	S	09.24.2020 10:03	0 - 3 ft	673497-003

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#### **CASE NARRATIVE**

Client Name: LT Environmental, Inc. Project Name: PLU 442-443 SWD Battery

 Project ID:
 012920122

 Work Order Number(s):
 673497

Report Date:09.28.2020Date Received:09.24.2020

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3138163 TPH by SW8015 Mod Surrogate 1-Chlorooctane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 673497-002.

Environment Testing Xenco

# Certificate of Analytical Results 673497

#### LT Environmental, Inc., Arvada, CO

PLU 442-443 SWD Battery

Sample Id: Lab Sample Id	<b>FS02A</b> d: 673497-001		Matrix: Date Colle	Soil ected: 09.24.2020 09:44		Date Received:09. Sample Depth: 3 f	24.2020 12 t	:22
Analytical Me	ethod: Chloride by EF	PA 300				Prep Method: E3	00P	
Tech:	MAB					% Moisture:		
Analyst:	MAB		Date Prep:	09.24.2020 16:44		Basis: We	et Weight	
Seq Number:	3138103		Ĩ					
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	126	9.96	mg/kg	09.24.2020 23:35		1
Analytical Me	ethod: TPH by SW80	15 Mod				Prep Method: SW	/8015P	
Tech:	DTH					% Moisture:		
Analyst:	DTH		Date Prep:	09.25.2020 10:30		Basis: We	et Weight	
Seq Number:	3138163							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range	Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	09.25.2020 14:01	U	1
Diesel Range Or	ganics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	09.25.2020 14:01	U	1
Motor Oil Range H	lydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	09.25.2020 14:01	U	1
Total GRO-DRO	)	PHC628	<50.2	50.2	mg/kg	09.25.2020 14:01	U	1

Total TPH	PHC635	<50.2	50.2		mg/kg	09.25.2020 14:01	U	1
Surrogate	Ca	as Number % R	ecovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	11	1-85-3	130	%	70-135	09.25.2020 14:01		
o-Terphenyl	84	-15-1	118	%	70-135	09.25.2020 14:01		

Environment Testing Xenco

# Certificate of Analytical Results 673497

#### LT Environmental, Inc., Arvada, CO

PLU 442-443 SWD Battery

Sample Id:	<b>FS02A</b>	Matrix:	Soil	Date Received:09.24.2020 12:22				
Lab Sample Id	d: 673497-001	Date Collected	1: 09.24.2020 09:44	Sample Depth: 3 ft				
Analytical Me Tech: Analyst: Seq Number:	ethod: BTEX by EPA 8021B MAB MAB 3138238	Date Prep:	09.25.2020 15:39	Prep Method: % Moisture: Basis:	SW5035A Wet Weight			

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	09.26.2020 09:31	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	09.26.2020 09:31	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	09.26.2020 09:31	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	09.26.2020 09:31	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	09.26.2020 09:31	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	09.26.2020 09:31	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	09.26.2020 09:31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	95	%	70-130	09.26.2020 09:31		
4-Bromofluorobenzene		460-00-4	129	%	70-130	09.26.2020 09:31		

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# Certificate of Analytical Results 673497

#### LT Environmental, Inc., Arvada, CO

PLU 442-443 SWD Battery

Sample Id:	FS03		Matrix:	Soil		Date Received	1:09.24.20	20 12:22	2
Lab Sample Io	l: 673497-002		Date Colle	ected: 09.24.2020 09:46		Sample Depth	:1 ft		
Analytical Me	thod: Chloride by EPA	300				Prep Method:	E300P		
Tech:	MAB					% Moisture:			
Analyst:	MAB		Date Prep	: 09.24.2020 16:44		Basis:	Wet Wei	ight	
Seq Number:	3138103								
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Fl	ag	Dil
Chloride		16887-00-6	87.4	10.0	mg/kg	09.24.2020 23	3:41		1

Analytical Method: TPH by SW801	5 Mod					Prep Method: SW	8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date Pr	ep: 09	.25.2020 12:00		Basis: We	Weight	
Seq Number: 3138163								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	09.25.2020 14:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	09.25.2020 14:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	09.25.2020 14:21	U	1
Total GRO-DRO	PHC628	<50.0	50.0		mg/kg	09.25.2020 14:21	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	09.25.2020 14:21	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	143	%	70-135	09.25.2020 14:21	**	
o-Terphenyl		84-15-1	126	%	70-135	09.25.2020 14:21		

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# Certificate of Analytical Results 673497

#### LT Environmental, Inc., Arvada, CO

PLU 442-443 SWD Battery

Sample Id:	<b>FS03</b>	Matrix:	Soil	Date Received:09.24.2020 12:22				
Lab Sample Id	d: 673497-002	Date Collected	1: 09.24.2020 09:46	Sample Depth: 1 ft				
Analytical Me Tech: Analyst: Seq Number:	ethod: BTEX by EPA 8021B MAB MAB 3138238	Date Prep:	09.25.2020 15:39	Prep Method: % Moisture: Basis:	SW5035A Wet Weight			

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	09.26.2020 09:53	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	09.26.2020 09:53	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	09.26.2020 09:53	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	09.26.2020 09:53	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	09.26.2020 09:53	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	09.26.2020 09:53	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	09.26.2020 09:53	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	117	%	70-130	09.26.2020 09:53		
1,4-Difluorobenzene		540-36-3	107	%	70-130	09.26.2020 09:53		

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# Certificate of Analytical Results 673497

### LT Environmental, Inc., Arvada, CO

PLU 442-443 SWD Battery

Sample Id:	SW01		Matrix:	Se	oil		Date Receive	d:09.2	4.2020 12:	:22	
Lab Sample Id	d: 673497-003		Date Col	lected: 09	9.24.2020 10:03		Sample Depth: 0 - 3 ft				
Analytical Me	ethod: Chloride by EPA	300					Prep Method	: E300	OP		
Tech:	MAB						% Moisture:				
Analyst:	MAB		Date Pre	p: 09	9.24.2020 16:44		Basis:	Wet	Weight		
Seq Number:	3138103										
Parameter		Cas Number	Result	RL		Units	Analysis I	Date	Flag	Dil	
Chloride		16887-00-6	378	10.0		mg/kg	09.24.2020 2	23:47		1	

Analytical Method: TPH by SW801	5 Mod					Prep Method: SW	8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date Pr	rep: 09	.25.2020 12:00		Basis: We	t Weight	
Seq Number: 3138163								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	09.25.2020 14:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1		mg/kg	09.25.2020 14:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	09.25.2020 14:42	U	1
Total GRO-DRO	PHC628	<50.1	50.1		mg/kg	09.25.2020 14:42	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	09.25.2020 14:42	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	113	%	70-135	09.25.2020 14:42	2	
o-Terphenyl		84-15-1	114	%	70-135	09.25.2020 14:4	2	

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# Certificate of Analytical Results 673497

### LT Environmental, Inc., Arvada, CO

PLU 442-443 SWD Battery

Sample Id:	<b>SW01</b>	Matrix:	Soil	Date Received:09.24.2020 12:           10:03         Sample Depth: 0 - 3 ft				
Lab Sample Id	1: 673497-003	Date Collected	l: 09.24.2020 10:03					
Analytical Me Tech: Analyst: Seq Number:	thod: BTEX by EPA 8021B MAB MAB 3138238	Date Prep:	09.25.2020 15:39	Prep Method: % Moisture: Basis:	SW5035A Wet Weight			

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	09.26.2020 10:16	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	09.26.2020 10:16	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	09.26.2020 10:16	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	09.26.2020 10:16	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	09.26.2020 10:16	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	09.26.2020 10:16	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	09.26.2020 10:16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	117	%	70-130	09.26.2020 10:16		
1,4-Difluorobenzene		540-36-3	104	%	70-130	09.26.2020 10:16		

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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.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL	Below Reporting Limit.	ND Not Detected.			
RL	Reporting Limit				
MDL	Method Detection Limit	SDL Sample Det	ection Limit	LOD Limit of Detection	
PQL	Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitation	n
DL	Method Detection Limit				
NC	Non-Calculable				
SMP	Client Sample		BLK	Method Blank	
BKS/	LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/S	<b>D</b> Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NE	ELAC certification not offered	for this compound.			

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

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**Environment Testing** 

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QC Summary 673497

# LT Environmental, Inc.

PLU 442-443 SWD Battery

Analytical Method: Chloride by EPA 300 Sea Number: 3138103						0.1.1			Pi	rep Meth	od: E30	00P	
Seq Number:	3138103			I CS San	Matrix:	Solid 7712045			LCS	Date Pr	ep: 09.2	24.2020 2045 1 BSD	
MB Sample Id:	//12045-1-1	BLK			lipie iu.	//12043-	I-DKS		LCS		e Iu. //I	2043-1-850	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	256	102	256	102	90-110	0	20	mg/kg	09.24.2020 21:05	
Analytical Method:	Chloride by	7 EPA 30	0						Pi	rep Meth	od: E30	00P	
Seq Number:	3138103				Matrix:	Soil				Date Pr	ep: 09.2	24.2020	
Parent Sample Id:	673488-006			MS Sar	nple Id:	673488-0	06 S		MS	D Sampl	e Id: 673	488-006 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		1260	199	1450	95	1450	95	90-110	0	20	mg/kg	09.24.2020 21:22	
Analytical Method: Seq Number:	<b>Chloride by</b> 3138103	v EPA 30	00		Matrix:	Soil			Pı	rep Meth Date Pr	od: E30 ep: 09.2	00P 24.2020	
Parent Sample Id:	673488-016			MS San	nple Id:	673488-0	16 S		MS	D Sampl	e Id: 673	488-016 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		3780	202	4000	109	3970	94	90-110	1	20	mg/kg	09.24.2020 22:40	
Analytical Method: Seq Number:	<b>TPH by SV</b> 3138163	78015 M	od		Matrix:	Solid			Pı	rep Meth Date Pr	od: SW ep: 09.2	8015P 25.2020	
MB Sample Id:	7712083-1-1	BLK		LCS San	nple Id:	7712083-	1-BKS		LCS	D Sample	e Id: 771	2083-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo Diesel Range Organics (	ons (GRO) (DRO)	<50.0 <50.0	1000 1000	1250 913	125 91	974 956	97 96	70-135 70-135	25 5	35 35	mg/kg mg/kg	09.25.2020 10:19 09.25.2020 10:19	
Surrogate		MB %Rec	MB Flag	L %]	CS Rec	LCS Flag	LCSI %Re	D LCS c Flag	D Li g	imits	Units	Analysis Date	
1-Chlorooctane o-Terphenyl		101 92		1	34 26		133 123	3	70 70	-135 -135	% %	09.25.2020 10:19 09.25.2020 10:19	
Analytical Method: Seq Number:	<b>TPH by SW</b> 3138163	78015 M	od		Matrix:	Solid			Pi	rep Meth Date Pr	od: SW ep: 09.2	8015P 25.2020	
				MB San	nple Id:	7712083-	1-BLK						
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocarl	oons (MRO)			<50.0							mg/kg	09.25.2020 09:59	

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

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

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Final 1.000
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Flag

### LT Environmental, Inc.

PLU 442-443 SWD Battery

Analytical Method:	od							Prep Method: SW8015P					
Seq Number:	3138163				Matrix:	Soil			Date Prep: 09.25.2020				
Parent Sample Id:	673493-001			MS Sar	nple Id:	673493-0	01 S		MSD Sample Id: 673493			493-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	
Gasoline Range Hydrocarb	ons (GRO)	<49.8	996	998	100	981	98	70-135	2	35	mg/kg	09.25.2020 11:19	
Diesel Range Organics	(DRO)	<49.8	996	992	100	955	96	70-135	4	35	mg/kg	09.25.2020 11:19	
Surrogate				N %]	1S Rec	MS Flag	MSD %Ree	o MSD c Flag	) Li g	imits	Units	Analysis Date	
1-Chlorooctane				1	34		130		70	-135	%	09.25.2020 11:19	
o-Terphenyl				1	30		125		70	-135	%	09.25.2020 11:19	

BTEX by EPA 8021	B						Prep Method: SW5035A					
3138238		]	Matrix:	Solid			Date Prep: 09.25.2020					
7712176-1-BLK		LCS San	ple Id:	7712176-	I-BKS	LCSD Sample Id: 7712176-1-BSD						
MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
< 0.00200	0.100	0.0987	99	0.103	103	70-130	4	35	mg/kg	09.26.2020 02:44		
< 0.00200	0.100	0.0947	95	0.0973	97	70-130	3	35	mg/kg	09.26.2020 02:44		
< 0.00200	0.100	0.0976	98	0.101	101	71-129	3	35	mg/kg	09.26.2020 02:44		
< 0.00400	0.200	0.197	99	0.201	101	70-135	2	35	mg/kg	09.26.2020 02:44		
< 0.00200	0.100	0.0986	99	0.0988	99	71-133	0	35	mg/kg	09.26.2020 02:44		
MB %Rec	MB Flag	L0 %]	CS Rec	LCS Flag	LCSI %Re	) LCSI c Flag	D Li	imits	Units	Analysis Date		
102		9	9		102		70	-130	%	09.26.2020 02:44		
115		1	)9		109		70	-130	%	09.26.2020 02:44		
	BTEX by EPA 8021 3138238 7712176-1-BLK MB Result <0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00200 MB %Rec 102 115	BTEX by EPA 8021B           3138238           7712176-1-BLK           MB         Spike           Result         Amount           <0.00200	BTEX by EPA 8021B           3138238         I           7712176-1-BLK         LCS San           MB         Spike         LCS            Amount         Result           <0.00200	BTEX by EPA 8021B         3138238       ✓Matrix:         7712176-1-BLK       LCS Sample Id:         MB       Spike       LCS       LCS          MB       Spike       LCS       %Rec         <0.00200	BTEX by EPA 8021B         3138238       Matrix: Solid         7712176-1-BLK       LCS Sample Id: 7712176-1         MB       Spike       LCS       LCS         Result       Amount       Result       %Rec       LCSD         <0.00200	BTEX by EPA 8021B           3138238         Matrix:         Solid           7712176-1-BLK         LCS Sample Id:         7712176-1-BKS           MB         Spike         LCS         LCS         LCSD         LCSD            MB         Spike         LCS         LCS         LCSD         LCSD            MB         Mount         Result         %Rec         LCSD         Result         %Rec             0.00200         0.100         0.0987         99         0.103         103             0.00200         0.100         0.0947         95         0.0973         97           <	BTEX by EPA 8021B         3138238       Matrix:       Solid         7712176-1-BLK       LCS Sample Id:       7712176-1-BKS         MB       Spike       LCS       LCS       LCSD       LCSD       LCSD       LISD         <0.00200	BTEX by EPA 8021B         Preside           3138238         Matrix:         Solid           7712176-1-BLK         LCS Sample Id:         7712176-1-BKS         LCS           MB         Spike         LCS         LCS         LCSD         LCSD <thlsd< th="">         LCSD         LCSD</thlsd<>	BTEX by EPA 8021B       Prep Meth         3138238       Matrix:       Solid       Date Pr         7712176-1-BLK       LCS Sample Id: $7712176-1$ -BKS       LCSD       Sample         MB       Spike       LCS       LCS       LCSD       LCSD       LCSD       LCSD       Sample $<0.00200$ 0.100       0.0987       99       0.103       103       70-130       4       35 $<0.00200$ 0.100       0.0947       95       0.0973       97       70-130       3       35 $<0.00200$ 0.100       0.0976       98       0.101       101       71-129       3       35 $<0.00200$ 0.100       0.0976       99       0.201       101       70-135       2       35 $<0.00200$ 0.100       0.0986       99       0.0988       99       71-133       0       35 $<0.00200$ 0.100       0.0986       99       0.0988       99       71-133       0       35 $<0.00200$ 0.100       0.0986       99       102       70-130       35 $<0.00200$ 0.100       99       102 <td>Prep Method: SW         3138238       Prep Method: SW         3138238       Date Prep: 09.2         7712176-1-BLK       LCS Sample Id: 7712176-1-BKS       LCSD LCSD Sample Id: 771         MB Spike LCS LCS LCS LCSD Method: Need Need Need Need Need Need Need Ne</td> <td>Prep Method:       SW5035A         3138238       Prep Method:       SW5035A         J138238       Prep Method:       SW5035A         Date Prep:       09.25.2020         7712176-1-BLK       LCS Sample Id       7712176-1-BKS       LCS Method:       Prep Method:       SW5035A         MB       Spike       LCS       J2176-1-BKS       LCS Method:       %Result        %Result</td>	Prep Method: SW         3138238       Prep Method: SW         3138238       Date Prep: 09.2         7712176-1-BLK       LCS Sample Id: 7712176-1-BKS       LCSD LCSD Sample Id: 771         MB Spike LCS LCS LCS LCSD Method: Need Need Need Need Need Need Need Ne	Prep Method:       SW5035A         3138238       Prep Method:       SW5035A         J138238       Prep Method:       SW5035A         Date Prep:       09.25.2020         7712176-1-BLK       LCS Sample Id       7712176-1-BKS       LCS Method:       Prep Method:       SW5035A         MB       Spike       LCS       J2176-1-BKS       LCS Method:       %Result        %Result	

Analytical Method:	BTEX by EPA 8021	B		Prep Method: SW5035A								
Seq Number:	3138238			Matrix:	Soil				Date Pr	ep: 09.2	25.2020	
Parent Sample Id:	673428-008		MS Sar	nple Id:	673428-00	)8 S	MSD Sample Id: 673428-008 SD					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.105	105	0.0983	98	70-130	7	35	mg/kg	09.26.2020 03:29	
Toluene	< 0.00201	0.100	0.0978	98	0.0878	88	70-130	11	35	mg/kg	09.26.2020 03:29	
Ethylbenzene	< 0.00201	0.100	0.105	105	0.0900	90	71-129	15	35	mg/kg	09.26.2020 03:29	
m,p-Xylenes	< 0.00402	0.201	0.210	104	0.180	90	70-135	15	35	mg/kg	09.26.2020 03:29	
o-Xylene	< 0.00201	0.100	0.104	104	0.0904	90	71-133	14	35	mg/kg	09.26.2020 03:29	
Surrogate			N %	1S Rec	MS Flag	MSD %Ree	o MSD c Flag	Li	imits	Units	Analysis Date	
1,4-Difluorobenzene			1	01		96		70	-130	%	09.26.2020 03:29	
4-Bromofluorobenzene			1	14		111		70	-130	%	09.26.2020 03:29	

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

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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

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Project Manager	BOR AT DRIES	Hou M Hobbs,NM (575	idland, TX (281) 240-420 idland, TX (432-704-544 392-7550) Phoenix,A:	0 Dallas,TX (214) 902-0 0) EL Paso,TX (915)58t 2 (480-355-0900) Atlanta	300 San Antonio,TX (210) 509-3334 5-3443 Lubbock,TX (806)794-1296 a,GA (770-449-8800) Tampa,FL (81	4 3-620-2000) <u>www.xenco.com</u>	Page of
Project Manager:	Dan Moir		Bill to: (if different)	Kyle Littrell		Work Order Co	- age
Company Name:	LT Environmental, Inc.	, Permian office	Company Name	XTO Energy		Brazzani lietinet	omments
Address:	3300 North A Street		Address:			State of Project:	elds I_RC {perfur
City, State ZIP:	Midland, Tx 79705		City, State ZIP:			Reporting Level II Devel III PETILI	
Phone: (	(432) 236-3849	Em	ail: wmather@ltenv.	com, dmoir@ltenv.cor	E	Deliverables: EDD ADaPT	
Project Name:	PLU 442-443 SV	VD Battery	Turn Around		ANAI YSIS DEDI		
Project Number:	Å 129201;	22 Ro	outine n				WORK Order NO
P.O. Number:	Eddy	R	ish:				
Sampler's Name:	William Ma	ther Du	le Date:				
SAMPLE RECEIF	PT Temp Blank:	Yes No Wet In	Vac No				
Temperature (°C):	3.4/3.9,	Thermome	tor ID				
Received Intact:	(Kest No	THIM	ain	1)			
Cooler Custody Seals:	Yes No NIA	Correction Facto	0-7 Cont	5) =802*			
Sample Custody Seals:	: Yes No N/A	Total Container	y J	A 801 PA 0= (EPA			TAT starts the day recevie
Sample Identif	fication Matrix	Date Time Sampled Samplec	- Depth	TPH (EP BTEX (E Chloride			Sample Commer
FS02A	S	9/24/2020 9:44	32	× 1 × 1			
FS03	s	9/24/2020 9:46	1. 1	x x x			Composite
SW01	S	9/24/2020 10:03	0-3' 1	x x x			Composite
		[					
			/				
		N					
		1	K				
Total 200.7 / 6010 Circle Method(s) a	200.8 / 6020: and Metal(s) to be anal	8RCRA 13 vzed TCLP / SP	PPM Texas 11 /	Al Sb As Ba Be E Sb As Ba Be Co	3 Cd Ca Cr Co Cu Fe Pb d Cr Co Cu Pb Mn Mo Ni	Mg Mn Mo Ni K Se Ag SiO2 Na S Se Ag Ti II	Sr TI Sn U V Zn
vtice: Signature of this docu service. Xenco will be liable Xenco. A minimum charge	ument and relinquishment of s le only for the cost of samples of \$75.00 will be appljød to ea	amples constitutes a valid p and shall not assume any u ch project and a charge of a	ourchase order from clier responsibility for any los	it company to Xenco, its a ses or expenses incurred i	ffiliates and subcontractors. It assigns by the client if such losses are due to c	standard terms and conditions ircumstances beyond the control	
Relinquished by: (S	ignature)	Received by: (Signat	ure)	Date/Time	Relinquished by: (Cimptu		
Biling	X	Ċ	66	4/20 12:20/2	· · · · · · · · · · · · · · · · · · ·	e) Received by: (Signature)	Date/Time
		4	1	4			

# **Eurofins Xenco, LLC**

### Prelogin/Nonconformance Report- Sample Log-In

Acceptable Temp	erature F	Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambien		
Temperature Measuring device used : T_NM_00		
eipt Checklist		Comments
	3.2	
	Yes	
	No	
	Yes	Samples received in bulk containers.
	Yes	
	No	
	N/A	
	Acceptable Tempo Air and Metal sam Temperature Meas	Acceptable Temperature I Air and Metal samples Acc Temperature Measuring d spipt Checklist 3.2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 09.24.2020

Checklist reviewed by: Jessica Kramer

Date: 09.25.2020

CONDITIONS

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Action 11276

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

### State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

#### CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road	5380	11276	C-141
Building #5 Midland, TX79707			
OCD Reviewer	Condition		
chensley	None		