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

State of New Mexico Energy Minerals and Natural **Resources Department**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	NRM2011453506
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude	Longitude	
	(NAD 83 in decimal degrees to 5 decimal places)	
Site Name	Site Type	
Date Release Discovered	API# (if applicable)	

Unit Letter	Section	Township	Range	County
L				

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)

Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (bbls)	Volume Recovered (bbls)
Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (Mcf)	Volume Recovered (Mcf)
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
	Volume Released (bbls) Volume Released (bbls) Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? Volume Released (bbls) Volume Released (Mcf) Volume/Weight Released (provide units)

Dage	2
Page	2

Oil Conservation Division

Incident ID	NRM2011453506
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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🗌 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

The source of the release has been stopped.

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

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

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

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

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

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

Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by: Ramona Marcus	Date:

NRM2011453506

2.00 bbls

Location:	PLU 25 BD 121H		
Spill Date:	2/5/2020		
	Area 1		
Approximate A	rea =	4488.00	sq. ft.
Average Satura	tion (or depth) of spill =	2.50	inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		-
Total Recycled	Produced Water =	5.00	bbls
	Area 2		
Approximate A	rea =	11.23	cu. ft.
Average Satura	tion (or depth) of spill =	0.00	inches
Average Porosi	ty Factor =	0.00	
	VOLUME RECOVERED		1
Total Recycled	Produced Water =	2.00	bbls
	TOTAL VOLUME OF LEAK		
Total Produced	l Water =	7.00	bbls

TOTAL VOLUME RECOVERED

Total Produced Water =

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Page 3

Oil Conservation Division

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Incident ID	NRM2011453506	
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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.

	>1001	
What is the shallowest depth to groundwater beneath the area affected by the release?	>100 ⁻ (ft bgs)	
Did this release impact groundwater or surface water?		
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?		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🖄 No	
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🖉 No	
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🕅 No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗶 No	
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗶 No	
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🗶 No	

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

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

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

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

eceived by OCD: 9/15/2	020 10:07:26 AM			Page 5
uge 4	Oil Conservation Divisior	1	Incident ID District RP	NRM2011453506
			Facility ID	
			Application ID	
regulations all operators are public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: Signature: email:Kyle_Littrell	Example: contract and complete to the erequired to report and/or file certain release nument. The acceptance of a C-141 report by the gate and remediate contamination that pose a the of a C-141 report does not relieve the operator of the certain term of a C-141 report does not relieve the operator of the certain term of a C-141 report does not relieve the operator of the certain term of a C-141 report does not relieve the operator of the certain term of a C-141 report does not relieve the operator of the certain term of a C-141 report does not relieve the operator of the certain term of a C-141 report does not relieve the operator of the certain term of a C-141 report does not relieve the operator of the certain term of a C-141 report does not relieve the operator of the certain term of a C-141 report does not relieve the operator of the certain term of a C-141 report does not relieve the operator of the certain term of a C-141 report does not relieve the operator of the certain term of a C-141 report does not relieve the operator of the certain term of a C-141 report does not relieve the operator of term of a C-141 report does not relieve the operator of term of a C-141 report does not relieve the operator of term of a C-141 report does not relieve the operator of term of a C-141 report does not relieve the operator of term of a C-141 report does not relieve the operator of term of a C-141 report does not relieve the operator of term of a C-141 report does not relieve t	otifications and p e OCD does not r rreat to groundwa of responsibility 	Arreage and enderstand that pars beerform corrective actions for relevative the operator of liability sheater, surface water, human health for compliance with any other features. &E Supervisor 1/2020	aunt to CCD rates and eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:		_ Date	::	

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Oil Conservation Division

Incident ID	NRM2011453506
District RP	
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Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following a	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 must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C 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 and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the O	ete to the best of my knowledge and understand that pursuant to OCD rules in release notifications and perform corrective actions for releases which f a C-141 report by the OCD does not relieve the operator of liability mediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. SH&E Supervisor
Printed Name: Kyle Littrell	Title:
Signature:	Date:08/31/2020
email: Kyle_Littrell@xtoenergy.com	Telephone:
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

LT Environmental, Inc.

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

A proud member of WSP

August 31, 2020

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

RE: Closure Request Poker Lake Unit 25 BD 121H Incident Number NRM2011453506 Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment, soil sampling, and remediation activities at the Poker Lake Unit (PLU) 25 BD 121H (Site) in Unit L, Section 25, Township 25 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to confirm the presence or absence of impacts to soil by a release of recycled produced water at the Site. Based on field observations, field screenings, and laboratory analytical results from soil sampling activities, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NRM2011453506.

RELEASE BACKGROUND

On February 5, 2020, a connection on the discharge side of a pump failed, resulting in the release of 7 barrels (bbls) of recycled produced water into a lined containment and onto the surrounding well pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids, of which approximately 2 bbls of recycled produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on April 22, 2020.

SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-03781, located approximately 1.8 miles north of the Site. The groundwater well has a reported depth to groundwater of 325 feet bgs and a total depth of 720 feet bgs. There are 5 wells within a 3.2-mile radius of the Site with similar depth to water measurements indicating regional depth to water is greater than 160 feet bgs. NMOSE well C-03872 was most recently sampled in January



Bratcher, M. Page 2

2015 with a depth to groundwater of 277 feet. Based on the information from these wells the regional depth to water for the Site is determined to be greater than 100 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and referenced well records are in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is an intermittent streambed, located approximately 746 feet northeast 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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On April 22, 2020, LTE personnel visited the Site to evaluate the release extent. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positing System (GPS). The release occurred within the lined containment and overflowing on to the immediate area northeast of the lined containment. LTE personnel collected and field screened three preliminary soil assessment samples at three locations (SS01 through SS03) within the release extent. Locations of soil samples are presented on Figure 2. Photographic documentation was conducted during the visit to the Site and is included in Attachment 2.

The three soil samples were collected at a depth of 0.5 feet below grade surface (bgs). Preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. All 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



Bratcher, M. Page 3

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.

According to laboratory analytical results, benzene, BTEX, TPH-GRO and TPH-DRO, TPH, and chloride were reported at concentrations below the Closure Criteria in the preliminary assessment soil samples SS01 through SS03. Based on field screening results, and laboratory analytical results, soil excavation did not appear to be warranted for the release area, however further delineation of the Site was scheduled to determine the presence or absence of impacts in the subsurface.

On April 27, 2020, LTE personnel returned to the Site to oversee additional soil assessment activities. Three potholes (SS01A/SS01B through SS03A/SS03B) were advanced using track-mounted backhoe, to a depth of four feet within the release extent. Potholes SS01A/SS01B through SS03A/SS03B were advanced at SS01 thought SS03 preliminary soil sample locations, respectively.

Discrete soil samples were collected from each pothole at depths of 2 feet bgs and 4 feet bgs. Soil from the delineation soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach[®] chloride QuanTab[®] test strips, respectively. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 3. The locations of delineation potholes (SS01A/SS01B through SS03A/SS03B) are presented on Figure 2. The discrete delineation soil samples were collected, handled, and analyzed as described above at Xenco in Carlsbad, New Mexico.

ANALYTICAL RESULTS

Laboratory analytical results indicated benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in soil samples SS01 through SS03 collected at approximately 0.5 feet bgs and in the six delineation soil samples (SS01A/SS01B through SS03A/SS03B) collected at 2 feet and 4 feet bgs. The laboratory analytical results are summarized in Table 1 and the laboratory analytical reports are provided in Attachment 4. In addition, delineation soil samples SS01B through SS03B collected at 4 feet bgs indicate the Site is delineated to the strictest Closure Criteria for soil concentrations of TPH and chloride.

CLOSURE REQUEST

Preliminary soil samples SS01 through SS03 and delineation soil samples SS01A/SS01B through SS03A/SS03B were collected from within the release extent from depths ranging from 0.5 feet to four feet bgs to assess for the presence or absence of soil impacts as a result of the release on February 5, 2020. Laboratory analytical results for all soil samples indicated benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.



Bratcher, M. Page 4

Based on initial response efforts, soil sample laboratory analytical results compliant with the Closure Criteria, and regional depth to groundwater determined to be greater than 100 feet bgs, no soil excavation was deemed warranted. In addition, delineation soil samples SS01B through SS03B collected at 4 feet bgs indicate the Site is delineated to the strictest Closure Criteria for soil concentrations of TPH and chloride. As such, XTO requests NFA for the release of recycled produced on February 5, 2020 and respectfully requests closure of Incident Number NRM2011453506.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Elizabeth Naka

Elizabeth A. Naka Staff Environmental Scientist

Ashley L. Ager

Ashley L. Ager, P.G. Senior Geologist

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

Appendices:

- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Table 1 Soil Analytical Results
- Attachment 1 Referenced Well Logs
- Attachment 2 Photographic Log
- Attachment 3 Lithologic/Soil Sampling Logs
- Attachment 4 Laboratory Analytical Results

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FIGURES





. Released to Imaging: 3/1/2021 9:37:11 AM



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TABLES



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TABLE 1 SOIL ANALYTICAL RESULTS

POKER LAKE UNIT 25 BRUSHY DRAW 121H INCIDENT NUMBER NRM2011453506 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table	e 1 Closure Crit	eria	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
SS01	0.5	4/22/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	14,100
SS01 A	2	04/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	1,230
SS01 B	4	04/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	241
SS02	0.5	4/22/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	18,600
SS02 A	2	04/27/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	861
SS02 B	4	04/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	382
SS03	0.5	4/22/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	9,640
SS03 B	2	04/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	1,770
SS03 A	4	04/27/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	450

Notes:

- bgs below ground surface
- BTEX benzene, toluene, ethylbenzene, and total xylenes
- DRO diesel range organics
- GRO gasoline range organics
- mg/kg milligrams per kilogram

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

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



Poker Lake Unit 25 Brushy Draw 121H - Soil Results

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. Released to Imaging: 3/1/2021 9:37:11 AM

	WR File Number:	C 03782	Subbas	in: CUB	Cross Ref	ference:	-	
	Primary Purpose:	EXP EX	PLORATION					
image list	Primary Status:	PMT PEF	MIT					
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WATER RIGHT SUMMARY



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

			(quarte (quar	ers are ters are	1=NV e sma	W 2= illest	NE 3=SW	V 4=	=SE)	(NAD83 U	TM in meters)	
Well Tag I	POD	Number	Q64	Q16	Q4	See	c Tws	R	Rng	X	Y	
- (C 03′	782 POD1	4	3	3	28	258	3	0E	604526	3551444 🌍	
Driller Licens Driller Name	se: 1	331	Driller	Con	ıpan	ıy:	SB0 CO	Q2	2, LLC D	BA STE'	WART BROTH	ERS DRILLING
Drill Start Da	ate:	01/16/2015	Drill F	inish	Dat	te:	0	1/1	17/2015	Pl	ug Date:	
Log File Date	e:	02/19/2015	PCW I	Rev D	Date	:				So	urce:	Artesian
Pump Type:			Pipe D	ischa	rge	Size	e:			Es	timated Yield:	
Casing Size:		8.63	Depth	Well	:		8	05	feet	De	epth Water:	277 feet
	Water	Bearing Stratifica	tions:		То	р	Bottom	1	Descrip	tion		
		0			26	50	320)	Sandston	ne/Grave	l/Conglomerate	
					32	20	380)	Sandston	ne/Grave	l/Conglomerate	
					38	30	410)	Sandston	ne/Grave	l/Conglomerate	
					41	0	530)	Shale/M	[udstone/S	Siltstone	
					53	30	590)	Shale/M	ludstone/	Siltstone	
					59	90	600)	Shale/M	[udstone/S	Siltstone	
					60	00	630)	Shale/M	[udstone/S	Siltstone	
					63	30	650)	Shale/M	[udstone/S	Siltstone	
					65	50	700)	Shale/M	[udstone/s	Siltstone	
					70	00	710)	Shale/M	ludstone/	Siltstone	
					71	0	760)	Shale/M	ludstone/	Siltstone	
					76	50	770)	Shale/M	ludstone/	Siltstone	
					77	70	780)	Shale/M	ludstone/S	Siltstone	
					78	80	790)	Shale/M	ludstone/S	Siltstone	
					79	90	805	5	Shale/M	ludstone/	Siltstone	
		Casing Perfor	ations:		To	р	Botton	1				
					27	70	805	5				

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.

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POINT OF DIVERSION SUMMARY



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National Water Information System: Web Interface

USGS Water Resources

 Data Category:
 Geographic Area:

 Site Information
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 United States
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USGS 320628103533001 25S.30E.21.333424

Available data for this site SUMMARY OF ALL AVAILABLE DATA \checkmark GO

Well Site

DESCRIPTION:

Latitude 32°06'28", Longitude 103°53'30" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 288 feet Land surface altitude: 3,207 feet above NAVD88. Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1958-08- 21	1998-01- 28	4
Revisions	Unavailable (timeseries:((site:0) 0)	,

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center

Email questions about this site to <u>New Mexico Water Science Center Water-</u> <u>Data Inquiries</u>

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		New M	lexico (ater	Office o Righ	of the Sta t Sum	ite En ma	nginee ry	r
F	WR File Number:	C 03781	Sut	obasin: CU	B Cross R	eference:	-	
	Primary Purpose:	EXP EXPL	ORATION					
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	Total Acres:		Sut	ofile: -			Header:	-
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	Agent:	ATKINS ENG	R ASSOC INC	3				
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8/31/20 4:07 PM

WATER RIGHT SUMMARY



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		(quarte (quar	ers are ters are	1=NW smal	/ 2=N lest to	E 3=SW	V 4=	=SE) (NA	.D83 U1	[M in meters)	
Well Tag PO	D Number	Q64	Q16	Q4	Sec	Tws	R	lng	Х	Ý	
C	03781 POD1	3	3	3	13	25S	30	0E 60	9306	3554761)
Driller License: Driller Name:	331	Driller	Com	pany	y:	SB CO	Q2	2, LLC DBA	STEV	VART BROT	HERS DRILLING
Drill Start Date:	01/08/2015	Drill F	inish	Date	:	0	1/1	10/2015	Plu	g Date:	
Log File Date:	02/19/2015	PCWI	Rev D	ate:					So	urce:	Artesian
Pump Type:		Pipe D	ischa	rge S	Size:				Est	imated Yiel	d:
Casing Size:	8.63	Depth	Well:	0		7	20	feet	De	pth Water:	325 feet
Wat	ter Bearing Stratific	ations		Тот	• F	Rottom	n 1	Description	n		
, , , , , , , , , , , , , , , , , , ,	ter bearing straine			200	, .)	37(Sandstone/	Gravel	/Conglomera	te
				370)	390	0 1	Sandstone/	Gravel	/Conglomera	te
				390)	410	0	Sandstone/	Gravel	/Conglomera	te
				410)	44(0	Sandstone/	Gravel	/Conglomera	te
				44()	460	0	Shale/Muds	stone/S	Siltstone	
				460)	470	0	Shale/Muds	stone/S	Siltstone	
				470)	490	0	Shale/Muds	stone/S	Siltstone	
				490)	500	0	Shale/Muds	stone/S	Siltstone	
				500)	510	0	Sandstone/	Gravel	/Conglomera	te
				510)	530	0	Shale/Muds	stone/S	Siltstone	
				530)	660	0	Shale/Muds	stone/S	Siltstone	
				660)	690	0	Shale/Muds	stone/S	Siltstone	
				690)	700	0	Shale/Muds	stone/S	siltstone	
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	Casing Perfo	rations:		Тор) I	Bottom	n				
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		Ne	w Mexic Wate	co Offic er Rig	e of ti ht S	he Sta Sum	te En ma	iginee ry	r
F	WR File Number:	C 0358	1	Subbasin:	CUB	Cross Re	ference:	-	
	Primary Purpose:	EXP	EXPLORATI	ON					
get image list	Primary Status:	PMT	PERMIT						
	Total Acres:			Subfile:	-			Header:	
	Total Diversion:	0		Cause/Case	: -				
	Owner:	GREG	ORY ROCKHO	USE RANCH,	INC.				
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POD N <u>C 0358</u>	Number Wel	l Tag So Sh	Q urce 64Q16Q4 allow 4 4 4	(1 Sec Tws Rng 05 26S 30E	NAD83 UTN X 604298	1 in meters) Y 3548291	Other I COTTO	Location Des	c 52

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			(quart	ers are	e sma	W 2=N	VE 3=SW	/ 4=SE)	(NAD83	UTM ir	meters)	
Well Tag	POD	Number	Q64	Q16	Q4	Sec	Tws	Rng	2	K	Y	
U	C 0	3581 POD1	4	4	4	05	26S	30E	60429	8 35	548291 🧲	
Driller Lice Driller Nan	ense: ne:	1654	Driller	r Con	npar	ıy:	NO AN	T WORI D CONS	KING FC STRUC	OR HIF	RESIRM	AN DRILLING
Drill Start	Date:	11/01/2012	Drill F	inish	n Dat	te:	11	/09/201	2 1	Plug D	ate:	
Log File Da	ate:	11/13/2012	PCW	Rcv I	Date	:				Source	:	Shallow
Pump Type	:		Pipe D	lischa	arge	Size	:]	Estima	nted Yield	: 55 GPM
Casing Size	:	6.00	Depth	Well	:		80	00 feet]	Depth	Water:	320 feet
	Wate	er Bearing Stratific	cations:		To 22 69	р Н 25 90	Bottom 335 710	Descr Sands Sands	r iption stone/Grav	vel/Co vel/Co	nglomerate	e e
		Casing Perfo	orations:		То	p E	Bottom					
					36	50	400					
					68	30	760					
					76	50	800					
	Mete	r Number:	16571			Ν	Aeter I	Make:		MAS	FERMETE	ER
	Mete	r Serial Number:	8107621			Ν	Aeter I	Multipli	ier:	100.0	000	
	Num	ber of Dials:	6			Ν	Aeter 🛛	Гуре:		Diver	sion	
	Unit	of Measure:	Gallons			F	Return	Flow P	ercent:			
	Usag	e Multiplier:				F	Readin	g Frequ	ency:			
Meter F	Readin	gs (in Acre-Feet)										

Read Date	Year I	Mtr Reading	Flag	g Rdr Co	omment	Mtr Amount Online
04/01/2014	2014	259537	А	RPT		0
07/01/2014	2014	278436	А	RPT		5.800
10/01/2014	2014	296778	А	RPT		5.629
12/31/2014	2014	313660	А	RPT		5.181
02/01/2015	2015	318775	А	RPT		1.570
03/02/2015	2015	323284	А	RPT		1.384
04/01/2015	2015	328475	А	RPT		1.593
04/30/2015	2015	335707	А	RPT		2.219
05/31/2015	2015	342147	А	RPT		1.976
08/01/2015	2015	352324	А	RPT		3.123
08/31/2015	2015	358371	А	RPT		1.856
10/01/2015	2015	364478	А	RPT		1.874
**YTD Met	er Amounts	: Year		Amount		
		2014		16.610		
		2015		15.595		

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	Contact:	BYR BUR STEV	ON W () EAU OI VE DAL	SHO F LA Y	OT) ANI	PAS D MA	Subfile: Cause/O CHAL	: Case: MENT	-			Header:	-
ments on] Trn t	File	lo/A of	S	tatu	is 2	Tre	nsortion	Dosa		From/	Aaros	Diversion	Consumpti
<u>get 5880</u>	<u>) 72121 2</u> 01	6-05-31	I PMT	ΓA	∠ APR	C 0	ansaction)3483 POI	Desc. D1		T	Acres	Jiversion 3	Consumpti
<u>get</u> 5434	09 COWNF 2	014-03-1	<u>7</u> СНО	Э Р	PRC	C 0)3483			Т	0	0	
get 47650	55 EXPL 201	1-04-15	PMT	ΓL	.0G	C 0)3483			Т	0	0	
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POD Numb	er We	ll Tag	Source Shallow	64 (4	Q16 4	Q4Se 4 0	c Tws Ri 5 26S 30	ng DE 6	X 504296	¥ 3548251	Other 1 .5 MI E 1361;Pl	Location Des 2. OF C- IPELINE RD	3C)
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e													
	Acres 1 0	Diversion (1)	CU	U E	Jse XP	Priority	Sou GV	rce Des W	scription			
is furnished concerning th	by the NMOSE/Interaction accuracy, compl	ISC and is eteness, re	accepted liability, u	by t sabil	the r ity, c	ecipie or suita	ent with the ability for a	e express my partic	ed under ular purp	standing that th ose of the data.	e OSE/IS	C make no wa	arranties, expre



New Mexico Office of the State Engineer Point of Diversion Summary

	(quarters (quarter	are 1=NV	V 2=N llest to	E 3=SW	' 4=SE)	(NAD83 U	UTM in meters)	
Well Tag POD Number	Q64 Q	16 Q4	Sec	Tws	Rng	X	Y	
C 03483	4	4 4	05	26S	30E	604296	3548251 🌍	
Driller License: 1509	Driller (Compan	y:	BM	S DRILL	ING CO	MPANY	
Driller Name: BEAUREGARD, 1	RICHARD							
Drill Start Date: 06/03/2011	Drill Fin	ish Dat	e:	06	5/08/2011	Р	lug Date:	
Log File Date: 07/14/2011	PCW Ro	ev Date:				S	ource:	Shallow
Pump Type: SUBMER	Pipe Dis	charge	Size:			E	stimated Yield:	35 GPM
Casing Size: 8.00	Depth W	/ell:		70	00 feet	D	epth Water:	200 feet
Water Bearing Stratific	ations:	То	р В	ottom	Descrit	otion		
		20	0	255	Sandsto	one/Grav	el/Conglomerate	
		28	5	320	Sandsto	one/Grav	el/Conglomerate	
		32	0	360	Sandsto	one/Grav	el/Conglomerate	
		51	0	650	Shale/N	Audstone	Siltstone	
Casing Perfo	rations:	To	рВ	ottom				
		18	0	260				
		28	0	360				
		50	0	680				
Meter Number:	14452		N	leter N	Make:]	MASTERMETE	R
Meter Serial Number:	32530329		N	leter N	Aultiplie	r:	100.0000	
Number of Dials:	6		N	leter T	Гуре:]	Diversion	
Unit of Measure:	Gallons		R	Return	Flow Per	rcent:		
Usage Multiplier:			R	Reading	g Freque	ncy:		
Meter Readings (in Acre-Feet)								
Read Date Year Mtr Re	eading Fla	ag Ro	dr (Comme	ent		Mtr	Amount (

Read Date	Year	Mtr Reading	Flag	Rdr C	omment	Mtr Amount Online
07/11/2011	2011	10	А	bd W C	/ELL TO BE SET UP FOR OM SALE	0
04/01/2014	2014	188668	А	RPT		0
04/02/2014	2014	44195	А	RPT		0
07/01/2014	2014	62284	А	RPT		5.551
10/01/2014	2014	91448	А	RPT		8.950
12/31/2014	2014	126199	А	RPT		10.665
02/01/2015	2015	138888	А	RPT		3.894
03/02/2015	2015	150578	А	RPT		3.588
04/01/2015	2015	157715	А	RPT		2.190
04/30/2015	2015	170037	А	RPT		3.781
05/31/2015	2015	182144	А	RPT		3.716
07/01/2015	2015	188338	А	RPT		1.901
08/31/2015	2015	209416	А	RPT		6.469
01/01/2016	2015	244328	А	mb		10.714
02/01/2016	2016	245605	А	mb		0.392
03/02/2016	2016	246331	А	mb		0.223

2016	283123	А	mb
2016	283123	А	mb
2010	275010	11	mo
2016	271192	A A	mb mb
2016	262631	A	mb
2016	248057	А	mb
	2016 2016 2016 2016 2016	2016 246331 2016 248057 2016 262631 2016 271192 2016 273040	2016 246331 A 2016 248057 A 2016 262631 A 2016 271192 A 2016 273040 A

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Well Site

DESCRIPTION:

Latitude 32°04'05", Longitude 103°52'40" NAD27 Eddy County, New Mexico , Hydrologic Unit 13070001 Well depth: 770 feet Land surface altitude: 3,159 feet above NAVD88. Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin	Date	End Date	Count
Field groundwater-level	1959-0)2-	1983-02-	5
measurements	18		15	
<u>Revisions</u>	Unavai (timese	lable (ries:0	(site:0))	

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Well Site

DESCRIPTION:

Latitude 32°04'04", Longitude 103°52'31" NAD27 Eddy County, New Mexico , Hydrologic Unit 13070001 Well depth: 775 feet Land surface altitude: 3,173 feet above NAVD88. Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1958-08- 18	1998-01- 28	6
Revisions	Unavailable (timeseries:0	(site:0)))	

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USGS 320355103524001 26S.30E.08.11421

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Well Site

DESCRIPTION:

Latitude 32°03'55", Longitude 103°52'40" NAD27 Eddy County, New Mexico , Hydrologic Unit 13070001 Well depth: 200 feet Land surface altitude: 3,147 feet above NAVD88. Well completed in "Santa Rosa Sandstone" (231SNRS) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1948-12- 15	1959-02- 18	2
Revisions	Unavailable (timeseries:0	(site:0)))	

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Well Site

DESCRIPTION:

Latitude 32°08'50", Longitude 103°53'38" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: not determined. Land surface altitude: 3,232 feet above NAVD88. Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1958-08- 19	1958-08- 19	1
Revisions	Unavailable (timeseries:0	(site:0)))	

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Well Site

DESCRIPTION:

Latitude 32°08'56", Longitude 103°50'28" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 482 feet Land surface altitude: 3,371 feet above NAVD88. Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-03- 25 2	1998-01- 28	5
<u>Revisions</u>	Unavailable ((timeseries:0)	site:0)	

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. Released to Imaging: 3/1/2021 9:37:11 AM

PHOTOGRAPHIC LOG



Photograph 1: View of western side of pad.



Photograph 2: View of southwest corner of pad where release occurred.

PLU 25 BD 121H Incident Number NRM2011453506 Photographs Taken: April 22, 2020

Page 1 of 1



ATTACHMENT 3: LITHOLOGIC / SOIL SAMPLING LOG



A proud of WSP	member	Con	Carlsbad, N npliance - Er	ew Mexico ngineering	o 88220 · Remedia	ation	Site Name: PLU 25 BD 2.02H, 121H, 901H RP or Incident Number:
S	LITH	DLOG	IC / SOII	SAMPI	ING LC)G	Logged By: Travis Casey Method: EXCauge for
2 Lat/Long:	001-103	01.		Field Scree	ning:	1010	Hole Diameter: Total Depth:
Comments:	78 / 103	841	876	Chloride, P	D CL	./F1D	
Moisture Content Chloride	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D 1,54	0 3.2	N	SSOIA			CCHE CCHE	0-4' CALICHE Dry and Moist, tan, modulately Consolidated, No Stain, No odor CALICHE Moist, tan, comput, Nostain No odor
~ 25.	2 0.0	~	SSOIB		4 5 6 7 8 9 10 11		

eering · Remediation	Site Name: PLU 25 BD 202H, 121H, 901H RP or Incident Number: LTE Job Number: 012920069 Logged By: Travis Cosey Method: Excavator Hole Diameter: Total Depth: NIA 2'-4' Lithology/Remarks Lithology/Remarks -4' CALICHE Dry + Moist, tan, moderate, on Sol, Jated, No Stain, No Odor AlichE Moist, tan, compact, No Sta
eering · Remediation $\begin{array}{c c} \underline{\text{MPLING LOG}} \\ \underline{\text{MPLING LOG}} \\ \underline{\text{d Screening:}} \\ \hline \text{oride, PID} & \underline{CL / PJ p} \\ \hline \\ \hline$	RP or Incident Number: LTE Job Number: 0/2920069 Logged By: Travis Cosey Method: Excavator Hole Diameter: MA Total Depth: 2'-4' Lithology/Remarks -4' CALICHE Dry + Moist, tan, moderate, In Sol, Jaked, No Stain, No Odor AliCHE Moist, tan, compact, No Sta
MPLING LOG d Screening: pride, PID $CL / PJ p$ mple Depth (ft bgs) O $CCHE$ O CHE C	Logged By: Travis Cosey Method: Excavator Hole Diameter: WIA Total Depth: 2'-4' Lithology/Remarks -4' CALICHE Dry + Moist, tan, moderate, on Sol, Jaked, No Stain, No odor AliCHE Moist, tan, compact, No Sta
d Screening: oride, PID CL/PJP mple Depth O $CCHE O$ O $CCHE O12C HE C_{-}34$	Hole Diameter: Hole Diameter: Total Depth: 2'-4' Lithology/Remarks -4' CALICHE Dry + Moist, tan, moderate, on Sol, Jated, No Stain, No odor AliCHE Moist, tan, compact, No Sta
$\begin{array}{c c} \text{mple} & \text{Depth} \\ \text{oride, PID} & \underline{CL/PJ} \\ \text{oride, PID} & \underline{CL/PJ} \\ \text{oride, PID} & \underline{CL/PJ} \\ \text{oright} \\ o$	Lithology/Remarks Lithology/Remarks -4' CALICHE Dry + Moist, tan, moderate, on sol, Jated, No Stain, No odor AliCHE Moist, tan, compact, No Sta
$\begin{array}{c c} mple \\ epth \\ bgs) \end{array} \hline Depth \\ (ft bgs) \\ \hline 0 \\ \hline 0$	Lithology/Remarks -4' CALICHE Dry + Moist, tan, moderate, onsol. Jated, No Stain, No odor AliCHE Moist, tan, compact, No Sta
$\begin{array}{c c} \text{mple} \\ \text{epth} \\ \text{bgs} \end{array} & \begin{array}{c} \text{Depth} \\ (\text{ft bgs}) \\ \end{array} & \begin{array}{c} \text{o} \\ \text{gg} \\ $	Lithology/Remarks H' CALICHE Dry + Moist, tan, moderate, Insol, Jated, No Stain, No odor AliCHE Moist, tan, compact, No Sta To odor
$\begin{array}{c c} \text{mple} \\ \text{epth} \\ \text{bgs} \end{array} \end{array} \begin{array}{c} \text{Depth} \\ (\text{ft bgs}) \\ \text{SOS} \\ SOS$	Lithology/Remarks
$\begin{array}{c} (ft \ bgs) \\ \hline 0 \\ \hline \\ 1 \\ \hline \\ 2 \\ \hline \\ 3 \\ \hline \\ 4 \\ \hline \\ 4 \\ \hline \end{array} \begin{array}{c} 0 \\ \hline \\ 0 \\ \hline 0 \\ \hline$	Lithology/Remarks
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	Aliche Moist, tun, compact, No Sta
$\begin{array}{c} 1 \\ 0 \\ - \\ 0 \\$	Aliche Moist, tan, compact, No Sta
	AlichE Moist, tan, compact, No sta
1 2 2 3 4 4	AlichE Moist, tun, compuct, No Sta
1 2 2 4 4	Aliche Moist, tun, compact, No Sta
2 2 3 4	Aliche Moist, tan, compact, No Sta
2 <i>CCHE</i> 3 4	AlichE Moist, tan, compact, No sta
	AlichE Moist, tun, compact, No Sta
	to odor Moist, tun, compact, No Sta
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1	112	2		LT Envir 508 Wes	t Stevens	I, Inc. Street	K.		BH or PH Name: <i>PHO</i> 3 <u>(5503 A-13</u>	32	4-27-20
A	proud	ember		Cansbau, N	ew wext	0 00220	1.1		Site Name: PLU 25	3D 20	1214, 121H, 90114
0	FWSP		Co	mpliance · E	ngineering	Remedi	ation		LTE Job Number	0.00	19
1.00		LITH	DLOG	SIC / SOU	SAMP	INCLO	DC	1.14	Logged By: T	200	lathad:
Lat/Lo	ng:			ne roon	Field Scree	ning:			Hole Diameter	Sey T	otal Depth
32, Comm	00946 ents:	1-103.	841	780	Chloride, H	D CL	IPI.	D	NIA		2'-4'
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	6.6	Lithc	ology/Re	marks
ē	1,663.2	0.0	N	\$503A			CC HE	CAllic	CALLCHE Dry +- olidated, No Sh	Moist	, ten Modrataly No odor mpact, No Stain
М	582.4	0.0	~	5 <i>50</i> 3B		3		~0	odor		
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Analytical Report 659618

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 25 BD

012920069

04.27.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

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



04.27.2020

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

Reference: XENCO Report No(s): 659618 PLU 25 BD Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 659618. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 659618 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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



Sample Cross Reference 659618

LT Environmental, Inc., Arvada, CO

PLU 25 BD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	04.22.2020 15:37	0 - 0.3 ft	659618-001
SS02	S	04.22.2020 15:41	0 - 0.3 ft	659618-002
SS03	S	04.22.2020 15:45	0 - 0.3 ft	659618-003



Client Name: LT Environmental, Inc. Project Name: PLU 25 BD

 Project ID:
 012920069

 Work Order Number(s):
 659618

 Report Date:
 04.27.2020

 Date Received:
 04.23.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3124031 Chloride by EPA 300

Lab Sample ID 659681-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 659618-001, -002, -003. The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



Project Id: 012920069

Contact: Dan Moir

Project Location:

Certificate of Analysis Summary 659618

LT Environmental, Inc., Arvada, CO

Project Name: PLU 25 BD

 Date Received in Lab:
 Thu 04.23.2020 09:12

 Report Date:
 04.27.2020 12:01

Project Manager: Jessica Kramer

	Lab Id:	659618-0	01	659618-0	002	659618-0	003		
Analysis Requested	Field Id:	SS01		SS02		SS03			
Απαιγείε Κεγμεείεα	Depth:	0-0.3 ft		0-0.3 f	t	0-0.3 ft			
	Matrix:	SOIL		SOIL		SOIL			
Se	ampled:	04.22.2020	15:37	04.22.2020	15:41	04.22.2020	15:45		
BTEX by EPA 8021B Ex	ctracted:	04.23.2020	04.23.2020 16:00		04.23.2020 16:00		16:00		
Ar	nalyzed:	04.23.2020	18:42	04.23.2020	19:02	04.23.2020	19:22		
	nits/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202		
Toluene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202		
Ethylbenzene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202		
m,p-Xylenes		< 0.00402	0.00402	< 0.00398	0.00398	< 0.00403	0.00403		
o-Xylene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202		
Total Xylenes		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202		
Total BTEX		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202		
Chloride by EPA 300 Ex	ctracted:	04.23.2020	15:00	04.23.2020	15:00	04.23.2020	15:00		
Ai	nalyzed:	04.23.2020	15:30	04.23.2020	15:52	04.23.2020	15:58		
	nits/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		14100 X	499	18600	505	9640	501		
TPH by SW8015 Mod Ex	ctracted:	04.23.2020	17:00	04.23.2020	17:00	04.23.2020	17:00		
Ai	nalyzed:	04.24.2020	15:04	04.23.2020	20:00	04.23.2020	21:02		
	nits/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.1	50.1	<49.9	49.9		
Diesel Range Organics (DRO)		<50.2	50.2	<50.1	50.1	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.1	50.1	<49.9	49.9		
Total GRO-DRO		<50.2	50.2	<50.1	50.1	<49.9	49.9		
Total TPH		<50.2	50.2	<50.1	50.1	<49.9	49.9		

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

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

Final 1.000

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Certificate of Analytical Results 659618

LT Environmental, Inc., Arvada, CO PLU 25 BD

Sample Id: Lab Sample Id	SS01 l: 659618-001		Matrix: Date Collec	Soil eted: 04.22.2020 15:37		Date Received:04.23.2020 09:12 Sample Depth: 0 - 0.3 ft			
Analytical Me Tech: Analyst: Seq Number:	thod: Chloride by EPA MAB MAB 3124031	300	Date Prep:	04.23.2020 15:00		Prep Method: E % Moisture: Basis: W	E300P Vet Weight		
Parameter		Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil	
Chloride		16887-00-6	14100	499	mg/kg	04.23.2020 15:3	0 X	50	
Analytical Me Tech: Analyst: Sag Number:	thod: TPH by SW8015 DTH DTH 3124187	Mod	Date Prep:	04.23.2020 17:00		Prep Method: S % Moisture: Basis: V	W8015P Vet Weight		
Parameter	5124107	Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil	

Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	2 50.2		mg/kg	04.24.2020 15:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	2 50.2		mg/kg	04.24.2020 15:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	2 50.2		mg/kg	04.24.2020 15:04	U	1
Total GRO-DRO	PHC628	<50.2	2 50.2		mg/kg	04.24.2020 15:04	U	1
Total TPH	PHC635	<50.2	2 50.2		mg/kg	04.24.2020 15:04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	88	%	70-135	04.24.2020 15:04		
o-Terphenyl		84-15-1	95	%	70-135	04.24.2020 15:04		



Certificate of Analytical Results 659618

LT Environmental, Inc., Arvada, CO PLU 25 BD

Sample Id:	SS01		Matrix:	Soil		Date Received	1:04.23	3.2020 09	:12
Lab Sample I	d: 659618-001		Date Co	llected: 04.22.2020 15:3	7	Sample Depth	1:0-0	.3 ft	
Analytical Me	ethod: BTEX by EPA 8	021B				Prep Method:	SW5	035A	
Tech:	MAB					% Moisture:			
Analyst:	MAB		Date Pre	p: 04.23.2020 16:0	0	Basis:	Wet	Weight	
Seq Number:	3124024								
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate	Flag	Dil
Benzene		71-43-2	< 0.00201	0.00201	mg/kg	04.23.2020 18	8:42	U	1

					00			
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.23.2020 18:42	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.23.2020 18:42	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.23.2020 18:42	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.23.2020 18:42	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	04.23.2020 18:42	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.23.2020 18:42	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	106	%	70-130	04.23.2020 18:42		
4-Bromofluorobenzene		460-00-4	95	%	70-130	04.23.2020 18:42		



Certificate of Analytical Results 659618

LT Environmental, Inc., Arvada, CO PLU 25 BD

Sample Id: SS02		Matrix:	Soil			Date Received:04.23.2020 09:12			
Lab Sample Id: 659618-002		Date Col	lected: 04.22.2	2020 15:41		Sample Depth: 0 - 0.3 ft			
Analytical Method: Chloride by l	EPA 300					Prep Method: E30	0P		
Tech: MAB						% Moisture:			
Analyst: MAB		Date Pre	p: 04.23.2	2020 15:00		Basis: Wet	Weight		
Seq Number: 3124031			L				-		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	18600	505		mg/kg	04.23.2020 15:52		50	
Analytical Method:TPH by SW8Tech:DTHAnalyst:DTHSeq Number:3124046	3015 Mod	Date Prej	p: 04.23.2	2020 17:00		Prep Method: SW % Moisture: Basis: Wet	8015P Weight		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	04.23.2020 20:00	U	1	
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1		mg/kg	04.23.2020 20:00	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	04.23.2020 20:00	U	1	
Total GRO-DRO	PHC628	<50.1	50.1		mg/kg	04.23.2020 20:00	U	1	
Total TPH	PHC635	<50.1	50.1		mg/kg	04.23.2020 20:00	U	1	
Surrogate	С	as Number %	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane	11	11-85-3	117	%	70-135	04.23.2020.20:00)		

128

%

70-135

84-15-1

o-Terphenyl

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04.23.2020 20:00



Certificate of Analytical Results 659618

LT Environmental, Inc., Arvada, CO PLU 25 BD

Sample Id:	SS02		Matrix:	Soil		Date Received	1:04.23	3.2020 09	:12
Lab Sample Id	: 659618-002		Date Col	lected: 04.22.2020 15:41		Sample Depth	:0-0.	3 ft	
Analytical Me	thod: BTEX by EPA 80)21B				Prep Method:	SW50	035A	
Tech:	MAB					% Moisture:			
Analyst:	MAB		Date Pre	p: 04.23.2020 16:00		Basis:	Wet V	Weight	
Seq Number:	3124024								
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate	Flag	Dil
Benzene		71-43-2	< 0.00199	0.00199	mg/kg	04.23.2020 19	9:02	U	1

					00				
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.23.2020 19:02	U	1	
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.23.2020 19:02	U	1	
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.23.2020 19:02	U	1	
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.23.2020 19:02	U	1	
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.23.2020 19:02	U	1	
Total BTEX		< 0.00199	0.00199		mg/kg	04.23.2020 19:02	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.23.2020 19:02			
4-Bromofluorobenzene		460-00-4	95	%	70-130	04.23.2020 19:02			



Certificate of Analytical Results 659618

LT Environmental, Inc., Arvada, CO PLU 25 BD

Sample Id:	SS03		Matrix:	Soil			Date Received:04.2	23.2020 09	:12
Lab Sample Id	l: 659618-003		Date Co	llected: 04.22	2.2020 15:45		Sample Depth: 0 -	0.3 ft	
Analytical Me	thod: Chloride by EF	PA 300					Prep Method: E30)0P	
Tech:	MAB						% Moisture:		
Analyst:	MAB		Date Pre	ep: 04.23	3.2020 15:00		Basis: We	t Weight	
Seq Number:	3124031			1				-	
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	9640	501		mg/kg	04.23.2020 15:58		50
Analytical Me Tech: Analyst: Seq Number:	thod: TPH by SW80 DTH DTH 3124046	15 Mod	Date Pre	p: 04.23	3.2020 17:00		Prep Method: SW % Moisture: Basis: We	78015P t Weight	
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range H	Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	04.23.2020 21:02	U	1
Diesel Range Org	ganics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	04.23.2020 21:02	U	1
Motor Oil Range H	ydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	04.23.2020 21:02	U	1
Total GRO-DRO	1	PHC628	<49.9	49.9		mg/kg	04.23.2020 21:02	U	1
Total TPH		PHC635	<49.9	49.9		mg/kg	04.23.2020 21:02	U	1
Surrogate		(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooc	tane	1	111-85-3	106	%	70-135	04.23.2020 21:02	2	

115

%

70-135

84-15-1

o-Terphenyl

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04.23.2020 21:02



Certificate of Analytical Results 659618

LT Environmental, Inc., Arvada, CO PLU 25 BD

Democra		71 42 0	-0.00202	0.00202		04 22 2020 1	0.22	TT	1
Parameter		Cas Number	Result	RL	Units	Analysis D	ate	Flag	Dil
Seq Number:	3124024								
Analyst:	MAB		Date Prep	p: 04.23.2020 1	6:00	Basis:	Wet	Weight	
Tech:	MAB					% Moisture:			
Analytical Me	ethod: BTEX by EPA 8	021B				Prep Method:	SW5	035A	
Lab Sample I	d: 659618-003		Date Col	lected: 04.22.2020 1	5:45	Sample Depth	n: 0 - 0	.3 ft	
Sample Id:	SS03		Matrix:	Soil		Date Receive	d:04.23	3.2020 09	:12

Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.23.2020 19:22	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.23.2020 19:22	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.23.2020 19:22	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	04.23.2020 19:22	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.23.2020 19:22	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.23.2020 19:22	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.23.2020 19:22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	102	%	70-130	04.23.2020 19:22		
1,4-Difluorobenzene		540-36-3	109	%	70-130	04.23.2020 19:22		

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	D 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



LT Environmental, Inc. PLU 25 BD

Analytical Method: Seq Number: MB Sample Id:	Chloride by EPA 3 3124031 7701931-1-BLK	00	LCS Sar	Matrix: nple Id:	Solid 7701931-1	I-BKS		Pr LCSI	ep Metho Date Pr D Sample	od: E30 ep: 04.2 e Id: 770	0P 23.2020 1931-1-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	254	102	256	102	90-110	1	20	mg/kg	04.23.2020 15:19	
Analytical Method: Seq Number: Parent Sample Id:	Chloride by EPA 3 3124031 659618-001	00	MS Sar	Matrix: nple Id:	Soil 659618-00	01 S		Pr MSI	rep Metho Date Pro D Sample	od: E30 ep: 04.2 e Id: 659	0P 23.2020 618-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	14100	250	14400	120	14400	120	90-110	0	20	mg/kg	04.23.2020 15:41	Х
Analytical Method:	Chloride by EPA 3	00						Pr	ep Metho	od: E30	0P	

Analytical Michou.	Chioriae by Er A 50							11	cp mean	ou. 150	01	
Seq Number:	3124031]	Matrix:	Soil				Date Pr	ep: 04.2	3.2020	
Parent Sample Id:	659681-001		MS San	ple Id:	659681-00	01 S		MSI	D Sample	e Id: 659	681-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	287	200	469	91	469	91	90-110	0	20	mg/kg	04.23.2020 16:58	

Analytical Method:TPH by SW8015 ModSeq Number:3124046MB Sample Id:7701997-1-BLK			od	Matrix: Solid LCS Sample Id: 7701997-1-BKS					Prep Method: SW8015P Date Prep: 04.23.2020				
MB Sample Id: 7701997-1-BLK				LCS Sample Id: 7/01997-1-BKS			LCSD Sample Id: 7/01997-1-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	ns (GRO)	< 50.0	1000	838	84	889	89	70-135	6	35	mg/kg	04.23.2020 19:20	
Diesel Range Organics (DRO)	<50.0	1000	925	93	978	98	70-135	6	35	mg/kg	04.23.2020 19:20	
Surrogate		MB %Rec	MB Flag	L(%]	CS Rec	LCS Flag	LCSE %Rec) LCSI 2 Flag	D Li g	mits	Units	Analysis Date	
1-Chlorooctane		99		1	07		131		70	-135	%	04.23.2020 19:20	
o-Terphenyl		108		1	06		118		70	-135	%	04.23.2020 19:20	

TPH by S	W8015 M	od						Pi	rep Meth	od: SW	8015P	
3124187				Matrix:	Solid				Date Pr	ep: 04.2	23.2020	
7701983-1	-BLK		LCS San	nple Id:	7701983-	1-BKS		LCS	D Sample	e Id: 770	1983-1-BSD	
	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
ons (GRO)	< 50.0	1000	876	88	723	72	70-135	19	35	mg/kg	04.24.2020 20:30	
DRO)	<50.0	1000	985	99	785	79	70-135	23	35	mg/kg	04.24.2020 20:30	
	MB %Rec	MB Flag	L4 %]	CS Rec	LCS Flag	LCSI %Ree) LCSE c Flag) Li	imits	Units	Analysis Date	
	108		1	16		94		70	-135	%	04.24.2020 20:30	
	120		1	17		93		70	-135	%	04.24.2020 20:30	
	TPH by S 3124187 7701983-1 ns (GRO) DRO)	TPH by SW8015 Me 3124187 7701983-1-BLK MB Result ns (GRO) <50.0 DRO) <50.0 MB %Rec 108 120	MB Spike MB Spike Result Amount ns (GRO) <50.0	MB Spike LCS Sart MB Spike LCS Result ns (GRO) <50.0	TPH by SW8015 Mod 3124187 Matrix: 7701983-1-BLK LCS Sample Id: MB Spike LCS LCS ns (GRO) <50.0	TPH by SW8015 Mod 3124187 Matrix: Solid 7701983-1-BLK LCS Sample Id: 7701983-1 MB Spike LCS LCS ns (GRO) <50.0	MB MB LCS LCS	TPH by SW8015 Mod 3124187 Matrix: Solid 7701983-1-BLK LCS Sample Id: 7701983-1-BKS MB Spike LCS LCS LCSD LCSD LCSD LISD ns (GRO) <50.0	MB MB LCS MS MS <t< td=""><td>TPH by SW8015 Mod Prep Meth 3124187 Matrix: Solid Date Pr 7701983-1-BLK LCS Sample Id 7701983-1-BKS LCSD Sample MB Spike LCS LCS LCS LCSD LCSD Matrix Matrix Matrix Matrix LCSD LCSD LCSD Sample ns (GRO) <50.0</td> 1000 876 88 723 72 70-135 19 35 DRO) <50.0</t<>	TPH by SW8015 Mod Prep Meth 3124187 Matrix: Solid Date Pr 7701983-1-BLK LCS Sample Id 7701983-1-BKS LCSD Sample MB Spike LCS LCS LCS LCSD LCSD Matrix Matrix Matrix Matrix LCSD LCSD LCSD Sample ns (GRO) <50.0	TPH by SW8015 Mod Prep Method: SW 3124187 Matrix: Solid Date Prep: 04.2 7701983-1-BLK LCS Sample Id: 7701983-1-BKS LCSD Sample Id: 7701983-1-BKS LCSD Sample Id: 770 MB Spike LCS LCS LCSD LCSD LCSD LImits %RPD RPD Units ns (GRO) <50.0	TPH by SW8015 Mod Prep Method: SW8015 P 3124187 Matrix: Solid Date Prep: 04.23.2020 7701983-1-BLK LCS Sample Id 7701983-1-BKS LCSD Sample Id 7701983-1-BSD MB Spike LCS LCS MR MR

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

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



QC Summary 659618

LT Environmental, Inc. PLU 25 BD

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW	8015P	
Seq Number:	3124046	Matrix:	Solid	Date Prep:	04.2	23.2020	
		MB Sample Id:	7701997-1-BLK				
Parameter		MB Result		ı	Units	Analysis Date	Flag
Motor Oil Range Hydrocard	bons (MRO)	<50.0		п	ng/kg	04.23.2020 18:59	
Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW	8015P	
Seq Number:	3124187	Matrix:	Solid	Date Prep:	04.2	23.2020	
		MB Sample Id:	7701983-1-BLK				
		MB			Traiter	Amolmuia	

Motor Oil Range Hydrocarbons (MRO)

Parameter

Result

< 50.0

Units Analysis Flag Date 04.24.2020 14:03 mg/kg

Analytical Method:	TPH by SW	od						Pı	ep Meth	od: SW	8015P		
Seq Number:	3124046]	Matrix:	Soil				Date Pr	ep: 04.2	23.2020	
Parent Sample Id: 659618-002				MS Sample Id: 659618-002 S		02 S	2 S MSD Sample Id:			e Id: 659	659618-002 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)	< 50.0	1000	813	81	1050	105	70-135	25	35	mg/kg	04.23.2020 20:21	
Diesel Range Organics (DRO)	<50.0	1000	879	88	1200	120	70-135	31	35	mg/kg	04.23.2020 20:21	
Surrogate				N %1	IS Rec	MS Flag	MSD %Ree	o MSD c Flag) Li	mits	Units	Analysis Date	
1-Chlorooctane				11	22		134		70	-135	%	04.23.2020 20:21	
o-Terphenyl				1	10		125		70	-135	%	04.23.2020 20:21	

Analytical Method: Seq Number:	TPH by SW 3124187	8015 Me	od	1	Matrix:	Soil			Pı	rep Meth Date Pr	od: SW ep: 04.2	8015P 23.2020	
Parent Sample Id:	ample Id: 659618-001			MS Sample Id:		659618-001 S			MSD Sample Id: 659618-001 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)	< 50.1	1000	985	99	810	81	70-135	19	35	mg/kg	04.24.2020 20:50	
Diesel Range Organics (DRO)	<50.1	1000	1110	111	871	87	70-135	24	35	mg/kg	04.24.2020 20:50	
Surrogate				M %1	IS Rec	MS Flag	MSD %Ree	o MSD c Flag) Li ;	imits	Units	Analysis Date	
1-Chlorooctane				12	24		113		70	-135	%	04.24.2020 20:50	
o-Terphenyl		122			97		70-135		%	04.24.2020 20:50			

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

[D] = 100*(C-A) / B $\begin{array}{l} \text{[D]} & = 100 \ (\text{C-E}) \ (\text{C-E}) \ | \\ \text{[D]} & = 100 \ (\text{C}) \ (\text{B}) \\ \text{Log Diff.} & = \text{Log(Sample Duplicate)} \ - \text{Log(Original Sample)} \end{array}$ LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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

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Final 1.000



QC Summary 659618

LT Environmental, Inc. PLU 25 BD

Analytical Method:	BTEX by EPA 8021	B						P	rep Meth	od: SW	5035A	
Seq Number:	3124024		I	Matrix:	Solid				Date Pr	ep: 04.2	3.2020	
MB Sample Id:	7701922-1-BLK		LCS San	ple Id:	7701922-1	1-BKS		LCS	D Sampl	e Id: 770	1922-1-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	0.106	106	0.110	110	70-130	4	35	mg/kg	04.23.2020 15:38	
Toluene	< 0.00200	0.100	0.101	101	0.105	105	70-130	4	35	mg/kg	04.23.2020 15:38	
Ethylbenzene	< 0.00200	0.100	0.0949	95	0.0980	98	71-129	3	35	mg/kg	04.23.2020 15:38	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.203	102	70-135	3	35	mg/kg	04.23.2020 15:38	
o-Xylene	< 0.00200	0.100	0.0996	100	0.102	102	71-133	2	35	mg/kg	04.23.2020 15:38	
Surrogate	MB %Rec	MB Flag	L0 %1	CS Rec	LCS Flag	LCSD %Rec	LCSI Flag) Li	imits	Units	Analysis Date	
1,4-Difluorobenzene	108		10	03		106		70	-130	%	04.23.2020 15:38	
4-Bromofluorobenzene	98		9	3		93		70	-130	%	04.23.2020 15:38	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 8021 3124024 659586-001	MS Sar	Matrix: nple Id:	Soil 659586-001 S			Prep Method: SW5035A Date Prep: 04.23.2020 MSD Sample Id: 659586-001 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	0.100	0.117	117	0.114	114	70-130	3	35	mg/kg	04.23.2020 16:19	
Toluene	< 0.00200	0.100	0.110	110	0.109	109	70-130	1	35	mg/kg	04.23.2020 16:19	
Ethylbenzene	< 0.00200	0.100	0.105	105	0.102	102	71-129	3	35	mg/kg	04.23.2020 16:19	
m,p-Xylenes	< 0.00401	0.200	0.216	108	0.210	105	70-135	3	35	mg/kg	04.23.2020 16:19	
o-Xylene	< 0.00200	0.100	0.108	108	0.105	105	71-133	3	35	mg/kg	04.23.2020 16:19	
Surrogate			N %]	1S Rec	MS Flag	MSD %Ree	MSE c Flag) L g	imits	Units	Analysis Date	
1,4-Difluorobenzene			1	03		104		70)-130	%	04.23.2020 16:19	
4-Bromofluorobenzene			ç	93		94		70)-130	%	04.23.2020 16:19	

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 Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC							
Date/ Time Received: 04.23.2020 09.12.00 AM	Air and Metal samples Acceptable Range: Ambient							
Work Order #: 659618	Temperature Measuring device used : T-NM-007							
Sample Rece	ipt Checklist	Comments						
#1 *Temperature of cooler(s)?	1							
#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	Samples received in bulk containers.						
#12 Samples in proper container/ bottle?	Yes							
#13 Samples properly preserved?	Yes							
#14 Sample container(s) intact?	Yes							
#15 Sufficient sample amount for indicated test(s)?	Yes							
#16 All samples received within hold time?	Yes							
#17 Subcontract of sample(s)?	No							
#18 Water VOC samples have zero headspace?	N/A							

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

Analyst:

PH Device/Lot#:

Checklist completed by: Date: 04.23.2020 Elizabeth McClellan

Checklist reviewed by: Jessica Kramer

Date: 04.23.2020



Analytical Report 659876

for

LT Environmental, Inc.

Project Manager: Tacoma Morrissey

PLU 25 BD

012920069

05.01.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

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



05.01.2020

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

Reference: XENCO Report No(s): 659876 PLU 25 BD Project Address:

Tacoma Morrissey:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 659876. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 659876 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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



Sample Cross Reference 659876

PLU 25 BD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01 A	S	04.27.2020 11:31	2 ft	659876-001
SS01 B	S	04.27.2020 11:39	4 ft	659876-002
SS02 A	S	04.27.2020 11:48	2 ft	659876-003
SS02 B	S	04.27.2020 12:04	4 ft	659876-004
SS03 B	S	04.27.2020 12:07	2 ft	659876-005
SS03 A	S	04.27.2020 12:11	4 ft	659876-006



Client Name: LT Environmental, Inc. Project Name: PLU 25 BD

 Project ID:
 012920069

 Work Order Number(s):
 659876

 Report Date:
 05.01.2020

 Date Received:
 04.27.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None


Certificate of Analysis Summary 659876

LT Environmental, Inc., Arvada, CO

Project Name: PLU 25 BD

Project Id:

012920069

Contact: Tacoma Morrissey

Project Location:

 Date Received in Lab:
 Mon 04.27.2020 15:00

 Report Date:
 05.01.2020 15:13

 Project Manager:
 Jessica Kramer

Lab Id: 659876-001 659876-002 659876-003 659876-004 659876-005 659876-006 Field Id: SS01 A SS01 B SS02 A SS02 B SS03 B SS03 A Analysis Requested Depth: 2- ft 4- ft 4- ft 4- ft 2- ft 2- ft Matrix: SOIL SOIL SOIL SOIL SOIL SOIL 04.27.2020 11:39 Sampled: 04.27.2020 11:31 04.27.2020 11:48 04.27.2020 12:04 04.27.2020 12:07 04.27.2020 12:11 BTEX by EPA 8021B 04.27.2020 16:00 04.27.2020 16:00 04.27.2020 16:00 04.27.2020 16:00 04.27.2020 16:00 Extracted: 04.27.2020 16:00 Analyzed: 04.27.2020 18:28 04.27.2020 18:49 04.27.2020 19:11 04.27.2020 19:32 04.27.2020 19:53 04.27.2020 20:15 RL RL RL RL RL RL Units/RL: mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg < 0.00200 < 0.00198 0.00198 < 0.00201 0.00201 < 0.00199 0.00199 < 0.00200 0.00200 0.00200 < 0.00199 0.00199 Benzene 0.00200 < 0.00200 < 0.00198 0.00198 < 0.00199 0.00199 < 0.00201 0.00201 < 0.00199 0.00199 Toluene < 0.00200 0.00200 < 0.00200 0.00200 < 0.00200 0.00200 < 0.00198 0.00198 < 0.00199 0.00199 < 0.00201 0.00201 < 0.00199 0.00199 Ethylbenzene 0.00399 < 0.00399 0.00399 < 0.00396 0.00396 < 0.00398 0.00398 < 0.00402 0.00402 < 0.00398 0.00398 < 0.00399 m,p-Xylenes < 0.00201 < 0.00200 0.00200 < 0.00200 0.00200 < 0.00198 0.00198 < 0.00199 0.00199 0.00201 < 0.00199 0.00199 o-Xylene 0.00200 0.00200 0.00198 < 0.00199 0.00199 < 0.00201 0.00201 0.00199 < 0.00200 < 0.00200 < 0.00198 < 0.00199 Total Xylenes Total BTEX < 0.00200 0.00200 < 0.00200 0.00200 < 0.00198 0.00198 < 0.00199 0.00199 < 0.00201 0.00201 < 0.00199 0.00199 Chloride by EPA 300 Extracted: 04.27.2020 16:00 04.27.2020 16:00 04.27.2020 16:00 04.27.2020 16:00 04.27.2020 16:00 04.27.2020 16:00 04.27.2020 16:37 04.27.2020 16:54 04.27.2020 16:59 04.27.2020 17:05 04.27.2020 17:10 04.27.2020 17:27 Analyzed: RL RL RL RL RL RL Units/RL: mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg Chloride 1230 99.4 241 10.0 861 9.98 382 9.98 450 101 1770 99.6 TPH by SW8015 Mod Extracted: 04.27.2020 17:00 04.27.2020 17:00 04.27.2020 17:00 04.27.2020 17:00 04.27.2020 17:00 04.27.2020 17:00 Analyzed: 04.27.2020 17:42 04.27.2020 18:03 04.27.2020 18:43 04.27.2020 17:42 04.27.2020 18:03 04.27.2020 18:43 RL RL RL RL RL RL Units/RL: mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg Gasoline Range Hydrocarbons (GRO) < 50.0 50.0 <49.8 49.8 <49.8 49.8 < 50.150.1 < 50.2 50.2 <49.8 49.8 Diesel Range Organics (DRO) <50.0 50.0 <49.8 49.8 <49.8 49.8 <50.1 50.1 < 50.2 50.2 <49.8 49.8 Motor Oil Range Hydrocarbons (MRO) 50.0 49.8 <49.8 49.8 <50.1 50.1 < 50.2 50.2 <49.8 49.8 < 50.0< 49.8Total GRO-DRO < 50.0 50.0 <49.8 49.8 <49.8 49.8 <50.1 50.1 < 50.2 50.2 <49.8 49.8 <50.1 <50.2 Total TPH < 50.0 50.0 <49.8 49.8 <49.8 49.8 50.1 50.2 <49.8 49.8

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

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

Jessica Vermer

Jessica Kramer Project Manager

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Certificate of Analytical Results 659876

LT Environmental, Inc., Arvada, CO PLU 25 BD

Sample Id: SS01 A Lab Sample Id: 659876-001		Matrix: Date Collec	Soil cted: 04.27.2020 11:31		Date Received:04.2 Sample Depth: 2 ft	27.2020 15	:00
Analytical Method: Chloride by El Tech: MAB Analyst: MAB	PA 300	Date Prep:	04.27.2020 16:00		Prep Method: E30 % Moisture: Basis: Wet	0P t Weight	
Seq Number: 3124306							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1230	99.4	mg/kg	04.27.2020 16:37		10
Analytical Method: TPH by SW80	15 Mod				Prep Method: SW	8015P	
Tech: DTH			04.07.0000.17.00		% Moisture:		
Seq Number: 3124321		Date Prep:	04.27.2020 17:00		Basis: Wet	t Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.27.2020 17:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.27.2020 17:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.27.2020 17:42	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.27.2020 17:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.27.2020 17:42	U	1

				00		
Surrogate	Cas Numl	oer % Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	04.27.2020 17:42	
o-Terphenyl	84-15-1	104	%	70-135	04.27.2020 17:42	



Certificate of Analytical Results 659876

LT Environmental, Inc., Arvada, CO PLU 25 BD

P		51 12 2	0.00000	0.000		01050000			
Parameter		Cas Number	Result	RL	Units	Analysis D	ate	Flag	Dil
Seq Number:	3124300								
Analyst:	MAB		Date Prep	o: 04.27.2020 16:00	0	Basis:	Wet	Weight	
Tech:	MAB					% Moisture:			
Analytical Me	ethod: BTEX by EPA 80)21B				Prep Method:	SW5	035A	
Lab Sample Io	l: 659876-001		Date Coll	ected: 04.27.2020 11:3	1	Sample Depth	1:2 ft		
Sample Id:	SS01 A		Matrix:	Soil		Date Received	d:04.27	7.2020 15	:00

Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.27.2020 18:28	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.27.2020 18:28	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.27.2020 18:28	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	04.27.2020 18:28	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.27.2020 18:28	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.27.2020 18:28	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.27.2020 18:28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	70-130	04.27.2020 18:28		
1,4-Difluorobenzene		540-36-3	116	%	70-130	04.27.2020 18:28		



Certificate of Analytical Results 659876

LT Environmental, Inc., Arvada, CO PLU 25 BD

Sample Id: Lab Sample Id	SS01 B l: 659876-002		Matrix: Date Collec	Soil eted: 04.27.2020 11:39		Date Received Sample Depth	l:04.27.2020 15 : 4 ft	:00
Analytical Me Tech: Analyst: Seq Number:	thod: Chloride by EPA MAB MAB 3124306	300	Date Prep:	04.27.2020 16:00		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil
Chloride		16887-00-6	241	10.0	mg/kg	04.27.2020 16	5:54	1
Analytical Me Tech: Analyst: Seq Number:	thod: TPH by SW8015 DTH DTH 3124321	Mod	Date Prep:	04.27.2020 17:00		Prep Method: % Moisture: Basis:	SW8015P Wet Weight	

Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
PHC610	<49.8	49.8		mg/kg	04.27.2020 18:03	U	1
C10C28DRO	<49.8	49.8		mg/kg	04.27.2020 18:03	U	1
PHCG2835	<49.8	49.8		mg/kg	04.27.2020 18:03	U	1
PHC628	<49.8	49.8		mg/kg	04.27.2020 18:03	U	1
PHC635	<49.8	49.8		mg/kg	04.27.2020 18:03	U	1
	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	111-85-3	97	%	70-135	04.27.2020 18:03		
	84-15-1	101	%	70-135	04.27.2020 18:03		
	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Cas Number Result PHC610 <49.8	Cas Number Result RL PHC610 <49.8	Cas Number Result RL PHC610 <49.8	Cas Number Result RL Units PHC610 <49.8	Cas Number Result RL Units Analysis Date PHC610 <49.8	Cas Number Result RL Units Analysis Date Flag PHC610 <49.8

JCO

LT Environmental, Inc., Arvada, CO

PLU 25 BD

Sample Id:	SS01 B		Matrix:	Soil	Date Rece	ived:04.27.2020 1	5:00	
Lab Sample I	d: 659876-002		Date Collecte	d: 04.27.2020 11:39	Sample De	Sample Depth: 4 ft		
Analytical Me	ethod: BTEX by EPA 802	21B			Prep Meth	od: SW5035A		
Tech:	MAB				% Moistur	e:		
Analyst:	MAB		Date Prep:	04.27.2020 16:00	Basis:	Wet Weight		
Seq Number:	3124300							
Parameter		Cas Number	Result RI	. 1	Inite Analysi	s Data Flag	Dil	

1 al allicici	Cas Mullibe	n Kesut	KL		Units	Analysis Date	riag	DII
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.27.2020 18:49	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.27.2020 18:49	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.27.2020 18:49	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	04.27.2020 18:49	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.27.2020 18:49	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.27.2020 18:49	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.27.2020 18:49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	115	%	70-130	04.27.2020 18:49		
4-Bromofluorobenzene		460-00-4	108	%	70-130	04.27.2020 18:49		



1-Chlorooctane

o-Terphenyl

Certificate of Analytical Results 659876

LT Environmental, Inc., Arvada, CO PLU 25 BD

Sample Id: Lab Sample Id	SS02 A 1: 659876-003		Matrix: Date Colle	Soil		Date Received:04.2'	7.2020 15:	00
Analytical Me	ethod: Chloride by EF	PA 300	Dute Cone			Prep Method: E300)P	
Tech:	MAB					% Moisture:		
Analyst:	MAB		Date Prep:	04.27.2020 16:00		Basis: Wet	Weight	
Seq Number:	3124306							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	861	9.98	mg/kg	04.27.2020 16:59		1
Analytical Me Tech: Analyst: Seq Number:	ethod: TPH by SW80 DTH DTH 3124321	15 Mod	Date Prep:	04.27.2020 17:00		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range	Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.27.2020 18:43	U	1
Diesel Range Or	ganics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.27.2020 18:43	U	1
Motor Oil Range H	lydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.27.2020 18:43	U	1
Total GRO-DRC)	PHC628	<49.8	49.8	mg/kg	04.27.2020 18:43	U	1
Total TPH		PHC635	<49.8	49.8	mg/kg	04.27.2020 18:43	U	1
Surrogate		Ca	s Number %	Recovery Units	Limits	s Analysis Date	Flag	

97

101

%

%

70-135

70-135

04.27.2020 18:43

04.27.2020 18:43

111-85-3

84-15-1



Certificate of Analytical Results 659876

LT Environmental, Inc., Arvada, CO PLU 25 BD

D		71 12 2	0.00100	0.00100		04 07 0000 1	0.11		1
Parameter		Cas Number	Result	RL	Units	Analysis D	ate	Flag	Dil
Seq Number:	3124300								
Analyst:	MAB		Date Pre	ep: 04.27.20	020 16:00	Basis:	Wet W	Veight	
Tech:	MAB					% Moisture:			
Analytical Me	ethod: BTEX by EPA 8	021B				Prep Method:	SW503	35A	
Lab Sample I	d: 659876-003		Date Co	llected: 04.27.20	020 11:48	Sample Depth	1:2 ft		
Sample Id:	SS02 A		Matrix:	Soil		Date Received	d:04.27.2	2020 15	:00
G 1 1 1			34.1	1		D D	10107	2020 15	00

Benzene	71-43-2	< 0.0019	8 0.00198		mg/kg	04.27.2020 19:11	U	1
Toluene	108-88-3	< 0.0019	8 0.00198		mg/kg	04.27.2020 19:11	U	1
Ethylbenzene	100-41-4	< 0.0019	8 0.00198		mg/kg	04.27.2020 19:11	U	1
m,p-Xylenes	179601-23-1	< 0.0039	6 0.00396		mg/kg	04.27.2020 19:11	U	1
o-Xylene	95-47-6	< 0.0019	8 0.00198		mg/kg	04.27.2020 19:11	U	1
Total Xylenes	1330-20-7	< 0.0019	8 0.00198		mg/kg	04.27.2020 19:11	U	1
Total BTEX		< 0.0019	8 0.00198		mg/kg	04.27.2020 19:11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	116	%	70-130	04.27.2020 19:11		
4-Bromofluorobenzene		460-00-4	108	%	70-130	04.27.2020 19:11		



Certificate of Analytical Results 659876

LT Environmental, Inc., Arvada, CO PLU 25 BD

Sample Id:	SS02 B		Matrix:	Soil		Date Received	1:04.27.2020	15:00
Lab Sample Io	l: 659876-004		Date Collec	cted: 04.27.2020 12:04		Sample Depth	:4 ft	
Analytical Me	thod: Chloride by EPA	300				Prep Method:	E300P	
Tech:	MAB					% Moisture:		
Analyst:	MAB		Date Prep:	04.27.2020 16:00		Basis:	Wet Weigh	t
Seq Number:	3124306							
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil
Chloride		16887-00-6	382	9.98	mg/kg	04.27.2020 17	7:05	1
Analytical Me	thod: TPH by SW8015	Mod				Prep Method:	SW8015P	
Tech:	DTH					% Moisture:		
Analyst:	DTH		Date Prep:	04.27.2020 17:00		Basis:	Wet Weigh	t

Seq Number: 3124331								
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	04.27.2020 17:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1		mg/kg	04.27.2020 17:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	04.27.2020 17:42	U	1
Total GRO-DRO	PHC628	<50.1	50.1		mg/kg	04.27.2020 17:42	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	04.27.2020 17:42	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-135	04.27.2020 17:42		
o-Terphenyl		84-15-1	101	%	70-135	04.27.2020 17:42		

JCO

LT Environmental, Inc., Arvada, CO PLU 25 BD

Sample Id:	SS02 B	Matrix:	Soil	Date Rece	ived:04.27.2020 15:00			
Lab Sample I	d: 659876-004	Date Collected: 04.27.2020 12:04			Sample Depth: 4 ft			
Analytical Me	ethod: BTEX by EPA 8021B			Prep Meth	od: SW5035A			
Tech:	MAB			% Moistur	e:			
Analyst:	MAB	Date Prep:	04.27.2020 16:00	Basis:	Wet Weight			
Seq Number:	3124300							
D (D. K						

Parameter	Cas Numbe	er Kesun	KL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.27.2020 19:32	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.27.2020 19:32	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.27.2020 19:32	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.27.2020 19:32	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.27.2020 19:32	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.27.2020 19:32	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.27.2020 19:32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	113	%	70-130	04.27.2020 19:32		
4-Bromofluorobenzene		460-00-4	105	%	70-130	04.27.2020 19:32		



Certificate of Analytical Results 659876

LT Environmental, Inc., Arvada, CO PLU 25 BD

Sample Id:	SS03 B		Matrix:	Soil		Date Received	1:04.27	.2020 15	:00
Lab Sample I	d: 659876-005		Date Colle	cted: 04.27.2020 12:07		Sample Depth	:2 ft		
Analytical M	ethod: Chloride by EPA	300				Prep Method:	E300	Р	
Tech:	MAB					% Moisture:			
Analyst:	MAB		Date Prep:	04.27.2020 16:00		Basis:	Wet V	Weight	
Seq Number:	3124306								
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate	Flag	Dil
Chloride		16887-00-6	450	101	mg/kg	04.27.2020 17	7:10		10
Analytical M	ethod: TPH by SW8015	Mod				Prep Method:	SW80	015P	

Analyst:DTHSeq Number:3124331		Date Pr	cep: 04	.27.2020 17:00		Basis: V	Vet Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	04.27.2020 18:0	3 U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	04.27.2020 18:0	3 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	04.27.2020 18:0	3 U	1
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	04.27.2020 18:0	3 U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	04.27.2020 18:0	3 U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Da	ite Flag	
1-Chlorooctane		111-85-3	102	%	70-135	04.27.2020 18	:03	
o-Terphenyl	:	84-15-1	109	%	70-135	04.27.2020 18	:03	



Certificate of Analytical Results 659876

LT Environmental, Inc., Arvada, CO PLU 25 BD

Sample Id: SS0	3 B		Matrix:	Soil		Date Received	1:04.27	.2020 15:0	0
Lab Sample Id: 659	876-005		Date Collect	ed: 04.27.2020 12:07		Sample Depth	:2 ft		
Analytical Method: Tech: MAI	BTEX by EPA 802 3	1B				Prep Method: % Moisture:	SW50)35A	
Analyst: MAI	3		Date Prep:	04.27.2020 16:00		Basis:	Wet V	Weight	
Seq Number: 3124	300								
Parameter		Cas Number	Result R	L	Units	Analysis Da	ate	Flag	Dil

						,		
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.27.2020 19:53	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.27.2020 19:53	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.27.2020 19:53	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.27.2020 19:53	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.27.2020 19:53	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	04.27.2020 19:53	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.27.2020 19:53	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	109	%	70-130	04.27.2020 19:53		
4-Bromofluorobenzene		460-00-4	106	%	70-130	04.27.2020 19:53		



Certificate of Analytical Results 659876

LT Environmental, Inc., Arvada, CO PLU 25 BD

Sample Id:	SS03 A		Matrix:	Soil		Date Received	:04.27.2020 15	:00
Lab Sample Id	1: 659876-006		Date Colle	ected: 04.27.2020 12:11		Sample Depth	: 4 ft	
Analytical Me	thod: Chloride by EPA	300				Prep Method:	E300P	
Tech:	MAB					% Moisture:		
Analyst:	MAB		Date Prep:	04.27.2020 16:00		Basis:	Wet Weight	
Seq Number:	3124306							
Parameter		Cas Number	Result	RL	Units	Analysis Da	nte Flag	Dil
Chloride		16887-00-6	1770	99.6	mg/kg	04.27.2020 17	2:27	10
Analytical Me	thod: TPH by SW8015	Mod				Prep Method:	SW8015P	
Tech:	DTH					% Moisture:		
Analyst:	DTH		Date Prep:	04.27.2020 17:00		Basis:	Wet Weight	
Seq Number:	3124331							
Parameter		Cas Number	Result	BI	Unite	Analysis Da	nto Flag	Dil

ranameter	Cas Nullibe	i Kesuit	KL		Units	Analysis Date	Flag	DII
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	04.27.2020 18:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	04.27.2020 18:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	04.27.2020 18:43	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	04.27.2020 18:43	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	04.27.2020 18:43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	105	%	70-135	04.27.2020 18:43		
o-Terphenyl		84-15-1	115	%	70-135	04.27.2020 18:43		



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LT Environmental, Inc., Arvada, CO PLU 25 BD

Parameter		Cas Number	Result	RL	Units	Analysis D	ate	Flag	Dil
Seq Number:	3124300								
Analyst:	MAB		Date Prep	: 04.27.2020 16:00		Basis:	Wet V	Weight	
Tech:	MAB					% Moisture:			
Analytical Me	ethod: BTEX by EPA 802	21B				Prep Method:	SW5	035A	
Lab Sample I	d: 659876-006		Date Colle	ected: 04.27.2020 12:11		Sample Depth	:4 ft		
Sample Id:	SS03 A		Matrix:	Soil		Date Received	1:04.27	2.2020 15:	00

Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.27.2020 20:15	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.27.2020 20:15	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.27.2020 20:15	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.27.2020 20:15	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.27.2020 20:15	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.27.2020 20:15	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.27.2020 20:15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	115	%	70-130	04.27.2020 20:15		
4-Bromofluorobenzene		460-00-4	107	%	70-130	04.27.2020 20:15		

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	D 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



LT Environmental, Inc. PLU 25 BD

Analytical Method: Seq Number: MB Sample Id:	Chloride by 3124306 7702149-1-2	y EPA 3(BLK	00	LCS Sar	Matrix: nple Id:	Solid 7702149-1	I-BKS		Pr LCSI	ep Metho Date Pro D Sample	od: E30 ep: 04.2 e Id: 770	0P 27.2020 2149-1-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	250	100	250	100	90-110	0	20	mg/kg	04.27.2020 16:26	
Analytical Method:	Chloride by	v EPA 30	00						Pr	ep Metho	od: E30	0P	
Seq Number:	3124306				Matrix:	Soil				Date Pre	ep: 04.2	27.2020	
Parent Sample Id:	659876-001			MS Sar	nple Id:	659876-00	01 S		MSI	D Sample	e Id: 659	876-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		1230	201	1410	90	1420	95	90-110	1	20	mg/kg	04.27.2020 16:43	
Analytical Method:	Chloride by	7 EPA 30	00						Pr	ep Metho	od: E30	0P	
Seq Number:	3124306				Matrix:	Soil				Date Pre	ep: 04.2	27.2020	
Parent Sample Id:	659890-002			MS Sar	nple Id:	659890-00	02 S		MSD Sample Id: 659890-002 SD				
r arone sampto tai				MC	MC	MED	MSD	Limits	%RPD	RPD	Unite	Analycic	
Parameter		Parent Result	Spike Amount	Result	%Rec	Result	%Rec		,	Limit	Units	Date	Flag
Parameter Chloride		Parent Result 330	Spike Amount 199	Result 548	%Rec 110	Result 548	%Rec 110	90-110	0	Limit 20	mg/kg	Date 04.27.2020 17:59	Flag

Analytical Method:	TPH by S	W8015 M	od						Pi	rep Meth	od: SW	8015P	
Seq Number:	3124321				Matrix:	Solid				Date Pr	ep: 04.2	27.2020	
MB Sample Id:	7702167-1	-BLK		LCS Sar	nple Id:	7702167-	1-BKS		LCS	D Sample	e Id: 770	2167-1-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	858	86	967	97	70-135	12	35	mg/kg	04.27.2020 13:00	
Diesel Range Organics (DRO)	<50.0	1000	958	96	1090	109	70-135	-135 12 35 mg/kg 04.27			04.27.2020 13:00	
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSI %Re) LCSI c Flag	D Li g	imits	Units	Analysis Date	
1-Chlorooctane		121		1	27		132		70	-135	%	04.27.2020 13:00	
o-Terphenyl		131		1	27		122		70	-135	%	04.27.2020 13:00	

Analytical Method:	TPH by SV	W8015 M	od						Pi	rep Meth	od: SW	8015P	
Seq Number:	3124331				Matrix:	Solid				Date Pr	ep: 04.2	27.2020	
MB Sample Id:	7702173-1-	BLK		LCS San	nple Id:	7702173-	1-BKS		LCS	D Sample	e Id: 770	2173-1-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	914	91	898	90	70-135	2	35	mg/kg	04.27.2020 14:22	
Diesel Range Organics ((DRO)	<50.0	1000	1020	102	998	100	70-135	2	35	mg/kg	04.27.2020 14:22	
Surrogate		MB %Rec	MB Flag	L/ %]	CS Rec	LCS Flag	LCSI %Re) LCSI c Flag	D Li g	imits	Units	Analysis Date	
1-Chlorooctane		86		1	30		131		70	-135	%	04.27.2020 14:22	
o-Terphenyl		91		1	16		132		70	-135	%	04.27.2020 14:22	

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



QC Summary 659876

LT Environmental, Inc. PLU 25 BD

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8	8015P	
Seq Number:	3124321	Matrix:	Solid	Date Prep:	04.2	27.2020	
		MB Sample Id:	7702167-1-BLK				
Parameter		MB Result			Units	Analysis Date	Flag
Motor Oil Range Hydrocart	bons (MRO)	<50.0			mg/kg	04.27.2020 12:40	
Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW	8015P	
Seq Number:	3124331	Matrix:	Solid	Date Prep:	04.2	27.2020	
		MB Sample Id:	7702173-1-BLK	Ĩ			
Parameter		MB Result			Units	Analysis Data	Flag

Motor Oil Range Hydrocarbons (MRO)

MB Sample Id:
MB
Result
< 50.0

Date

mg/kg 04.27.2020 12:40

Analytical Method: Seq Number: Parent Sample Id:	Analytical Method:TPH by SW8015 ModSeq Number:3124321Parent Sample Id:659819-001ParameterParent Specific					Soil 659819-00	01 S		Pr MSI	ep Metho Date Pr D Sample	od: SW ep: 04.2 e Id: 659	8015P 27.2020 819-001 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)	<50.3	1010	935	93	935	94	70-135	0	35	mg/kg	04.27.2020 14:01	
Diesel Range Organics (DRO)	<50.3	1010	1060	105	1060	106	70-135	0	35	mg/kg	04.27.2020 14:01	
Surrogate				N %1	IS Rec	MS Flag	MSD %Rec	MSD Flag	Li	mits	Units	Analysis Date	
1-Chlorooctane				1	18		114		70-	-135	%	04.27.2020 14:01	
o-Terphenyl				1	15		114		70-	-135	%	04.27.2020 14:01	

Analytical Method:	TPH by SW	8015 M	od						Pı	ep Meth	od: SW	8015P	
Seq Number:	3124331]	Matrix:	Soil				Date Pr	ep: 04.2	27.2020	
Parent Sample Id:	659819-002			MS San	nple Id:	659819-00	02 S		MS	D Sample	e Id: 659	819-002 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)	<50.3	1010	812	80	864	86	70-135	6	35	mg/kg	04.27.2020 14:01	
Diesel Range Organics (DRO)	<50.3	1010	877	87	971	97	70-135	10	35	mg/kg	04.27.2020 14:01	
Surrogate				N %]	IS Rec	MS Flag	MSD %Ree	o MSE c Flag) Li ;	mits	Units	Analysis Date	
1-Chlorooctane				1	15		105		70	-135	%	04.27.2020 14:01	
o-Terphenyl				1	02		109		70	-135	%	04.27.2020 14:01	

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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QC Summary 659876

LT Environmental, Inc. PLU 25 BD

Analytical Method:	BTEX by EPA 8021	B						P	rep Meth	od: SW	5035A	
Seq Number:	3124300		I	Matrix:	Solid				Date Pr	rep: 04.2	7.2020	
MB Sample Id:	7702088-1-BLK		LCS San	ple Id:	7702088-1	I-BKS		LCS	D Sampl	e Id: 770	2088-1-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	0.123	123	0.124	124	70-130	1	35	mg/kg	04.27.2020 10:59	
Toluene	< 0.00200	0.100	0.109	109	0.110	110	70-130	1	35	mg/kg	04.27.2020 10:59	
Ethylbenzene	< 0.00200	0.100	0.101	101	0.102	102	71-129	1	35	mg/kg	04.27.2020 10:59	
m,p-Xylenes	< 0.00400	0.200	0.196	98	0.196	98	70-135	0	35	mg/kg	04.27.2020 10:59	
o-Xylene	< 0.00200	0.100	0.102	102	0.103	103	71-133	1	35	mg/kg	04.27.2020 10:59	
Surrogate	MB %Rec	MB Flag	L0 %1	CS Rec	LCS Flag	LCSD %Rec	D LCSI 2 Flag	D Li	imits	Units	Analysis Date	
1,4-Difluorobenzene	114		10)8		111		70	-130	%	04.27.2020 10:59	
4-Bromofluorobenzene	102		9	7		98		70	-130	%	04.27.2020 10:59	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 8021 3124300 659819-001	B] MS San	Matrix: nple Id:	Soil 659819-00	01 S		Pr MS	rep Methe Date Pr D Sample	od: SW ep: 04.2 e Id: 659	5035A 27.2020 819-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00198	0.0990	0.121	122	0.112	113	70-130	8	35	mg/kg	04.27.2020 11:41	
Toluene	< 0.00198	0.0990	0.118	119	0.0994	100	70-130	17	35	mg/kg	04.27.2020 11:41	
Ethylbenzene	< 0.00198	0.0990	0.112	113	0.0914	92	71-129	20	35	mg/kg	04.27.2020 11:41	
m,p-Xylenes	< 0.00396	0.198	0.218	110	0.177	89	70-135	21	35	mg/kg	04.27.2020 11:41	
o-Xylene	< 0.00198	0.0990	0.110	111	0.0922	93	71-133	18	35	mg/kg	04.27.2020 11:41	
Surrogate			N %]	IS Rec	MS Flag	MSD %Rec	MSD Flag	Li	imits	Units	Analysis Date	
1,4-Difluorobenzene			1	08		108		70	-130	%	04.27.2020 11:41	
4-Bromofluorobenzene			9	9		95		70	-130	%	04.27.2020 11:41	

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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Leverv	(m) then		Kenco. A minimum charge of \$75.0	Slice: Signature of this document and the service is the service will be light and the service is the service i	Circle Method(c) and M				8 8055	SSO3A	SSO28	28032	55013	SSOIA	Sample Identificatio	control ocals.	Sample Custody Seals:	Cooler Custody Seale:	Received Intert	Temperature /°C\·	SAMPLE RECEIPT	Sampler's Name: Travis	P.O. Number: 2 /	Project Number: 0/2	Project Name: PI.U	Phone: (432)	City, State ZIP: Midla	Address: 3300	Company Name: LT Er	Project Manager: Tacol				IJ
			or the cost of samples and s 00 will be applied to each pro	retai(s) to be analyzed	00.8 / 6020:				7					5 4-:	n Matrix E	TES NO N/A	Yos No N/A	Ves No	393	DD C	Temp Blank: Ye	Casey	5/20 Spill	6900260	25 32	704-5178	nd, TX 79705	North A St. Bldg 1, U	vironmental, Inc., Pe	ma Morrissey		ATORIES	j	
	CCUL	eived by: (Signature)	bind I not assume any responsi	d TCLP / SPLP 6 s constitutes a valid purchase	8RCRA 13PPM				1211	462	1204	8411	1 1139	27-20 1131	Date Time mpled Sampled	Total Containers:	Correction Factor:	-WW-L	Thermometer ID	VIEL ICE.	AR NO Wat Inc.	Due Da	Det Rush:	Routine	Tun	Email: t		nit 222	rmian office		Hobbs,NM (575-392-7	Houston, T Midland,		
	4/27/2	Date	bility for any losses or exp ich sample submitted to Xe	order from client compan	Texas 11 AI Sb ,				H 1 X	2 1 1	Y 1 1	2' 1 1	N, I V	2, 1 4	Number TPH (El	er of	015)	o 0 +	ine	rs NO	9	ate:4-26-20	24hr		Around	morrissey@ltenv.cor	Caty, State ZIP: Ca	Address: 31	Company Name: X	Bill to: (if different) Ky	7550) Phoenix,AZ (480-3	TX (281) 240-4200 Dallas TX (432-704-5440) FI F	Ch	
0 4	0 15:00 2	/Time Re	nco, but not analyzed. Th	As Ba Be Cd Cr y to Xenco, its affiliates a	As Ba Be B Cd (N	2	X	XX	x x	X	A A	xX	BTEX (I	EPA e (EF	802 ⁻ PA 3	1) 00.0))					_		n tcasey@ltenv.cor	arlsbad, NM	104 E Greene St.	TO Energy	yle Littrell	55-0900) Atlanta,GA (7	s, TX (214) 902-0300 Sa	ain of Cus	
		linquished by: (Signatu	ese terms will be enforced un	Co Cu Pb Mn Mo N	Ca Cr Co Cu Fe Pb																				ANAI YSIS REO	n ab					70-449-8800) Tampa,FL (8	In Antonio, TX (210) 509-333	tody	
		re) Received by: (Signature)	sumuaru terms and conditions rcumstances beyond the control ess previously negotiated.	i Se Ag TI U 1631	Mg Mn Mo Ni K Se Ag SiO2 Na g																					Deliverables: EDD Anapr	Reporting:Level II Pevel III PST/	State of Project: NM	- Work Order		13-620-2000) WMW XEDCO COM	4	Work Order N	
		Date/Time		/245.1/7470 /7471 : Hg	Sr TI Sn II V Zn			+					Vistrete		Sample Comments	TAT starts the day recevied by the lab, if received by 4:30pm								WORK Order Notes				nfieldsRCuperfund	Comments	- ugo / 0	Pane / of	0	016865N	

Released to Imaging: 3/1/2021 9:37:11 AM

2010.

Final 1.001

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperatu	re Range: 0 - 6 degC
Date/ Time Received: 04.27.2020 03.00.00 PM	Air and Metal samples	Acceptable Range: Ambient
Work Order #: 659876	Temperature Measurin	g device used : T-NM-007
Sample Rec	eipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.2	
#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 revceived 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: 04.27.2020

Checklist reviewed by: Jessica Kramer

Date: 04.28.2020

Received by OCD: 9/15/2020 10:07:26 AM Form C-141 State of New Mexico

Page 6

Oil Conservation Division

	Incident ID	NRM2011453506
	District RP	
Ī	Facility ID	
Ī	Application ID	

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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.				
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC			
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)			
Description of remediation activities				
I hereby certify that the information given above is true and complet and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the O Printed Name: Kyle Littrell Signature: Kyle_Littrell@xtoenergy.com	ete to the best of my knowledge and understand that pursuant to OCD rules in release notifications and perform corrective actions for releases which E a C-141 report by the OCD does not relieve the operator of liability mediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete. 			
OCD Only				
Received by: <u>Robert Hamlet</u>	Date: <u>3/1/2021</u>			
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.			
Closure Approved by: <u>Robert Hamlet</u>	Date: <u>3/1/2021</u>			
Printed Name: <u>Robert Hamlet</u>	Title: Environmental Speicalist - Advanced			

CONDITIONS

Action 10188

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: XTO ENE Building #5	RGY, INC 6401 Holiday Hill Road Midland, TX79707	OGRID: 5380	Action Number: 10188	Action Type: C-141
OCD Reviewer Condition				
rhamlet	We have received your closure report and final C-141 for Incident #NRM2011453506 PLU 25 BD 121H, thank you. This closure is approved.			

rhamlet We have received your closure report and final C-141 for Incident #NRM2011453506 PLU 25 BD 121H, thank you. This closure is approved.