<u>District I</u> 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	NRM2026546692	
District RP		
Facility ID		
Application ID		

Release Notification

Responsible Party					
Responsible Party XTO Energy				OGRID 5	5380
Contact Name Kyle Littrell				Contact Te	elephone 432-221-7331
Contact emai	il Kyle_Lit	trell@xtoenergy.c	om	Incident #	(assigned by OCD)
Contact mail	ing address	522 W. Mermod	, Carlsbad, NM 88	220	
				of Release So	
Latitude 32.1	04444			Longitude -	-103.838889
			(NAD 83 in dec	imal degrees to 5 decim	nal places)
Site Name F	LU 25 Brus	shy Draw West TB		Site Type	Tank Battery
Date Release				API# (if app	
Unit Letter	Section	Township	Range	Coun	ity
F	25	258	30E	Eddy	у
Surface Owner	r: State	🔀 Federal 🗌 Tr	ibal 🗌 Private (A	Name:	
			Nature and	Volume of F	Release
				calculations or specific	justification for the volumes provided below)
Crude Oi		Volume Release			Volume Recovered (bbls) ₇
Produced	Water	Volume Release			Volume Recovered (bbls)
			ion of total dissolv water >10,000 mg/	` '	☐ Yes ☐ No
Condensa	ite	Volume Release			Volume Recovered (bbls)
☐ Natural G	ias	Volume Released (Mcf)			Volume Recovered (Mcf)
Other (de	Other (describe) Volume/Weight Released (provide units)		units)	Volume/Weight Recovered (provide units)	
Cause of Release Oil tank overfilled causing fluid to surge out of the thief hatch. A third party contractor will be retained for remediation activities.					

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	NRM2026546692
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	N/A
19.15.29.7(A) NMAC?	
☐ Yes ☒ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
N/A	
<u> </u>	
	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 rele	ease has been stopped.
l <u> </u>	s been secured to protect human health and the environment.
	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and managed appropriately.
	d above have not been undertaken, explain why:
If all the actions described	a above have hot been undertaken, explain why.
	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred
	a narrative of actions to date. If remedial efforts have been successfully completed of if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation 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
l ;	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
addition, OCD acceptance o	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In fa C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
Printed Name: Kyle Littr	Title: SH&E Supervisor
403	9-15-20
Signature:	Date:
email; Kyle_Littrell@xto	Denergy.com Telephone: 432-221-7331
OCD Only	
Received by: Ramor	na Marcus Date: 9/21/2020

NRM2026546692

Location:	PLU 25 BD WEST TB		
Spill Date:	9/8/2020		
	Area 1		
Approximate A	ea =	27.90	cu. ft.
Average Satura	tion (or depth) of spill =	0.00	inches
Average Porosi	y Factor =	0.00	
	VOLUME OF LEAK		
Total Crude Oil	=	5.00	bbls
	Area 2		
Approximate A	rea =	5624.00	sq. ft.
Average Satura	tion (or depth) of spill =	1.00	inches
Average Porosi	y Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil	=	2.50	bbls
	TOTAL VOLUME OF LEAK		
Total Crude Oil	=	7.50	bbls
	TOTAL VOLUME RECOVERED		
Total Crude Oil	=	7.00	bbls

Received by OCD: 4/13/2021 2:26:24 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	Page 4 of 69
Incident ID	NRM2026546692
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

Received by OCD: 4/13/2021 2:26:24 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 5 of 69
Incident ID	NRM2026546692
District RP	
Facility ID	
Application ID	

regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report by failed to adequately investigate and remediate contamination that pose	to the best of my knowledge and understand that pursuant to OCD rules and se notifications and perform corrective actions for releases which may endanger to the OCD does not relieve the operator of liability should their operations have a threat to groundwater, surface water, human health or the environment. In ator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Kyle Littrell	Title: SH&E Supervisor
Signature:	Date:03/29/2021
email:Kyle_Littrell@xtoenergy.com	Telephone: 432-221-7331
OCD Only	
Received by:	Date:

Received by OCD: 4/13/2021 2:26:24 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Incident ID NRM2026546692
District RP
Facility ID
Application ID

Closure

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

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	
Note: appropriate OCD District office must be notified 2 days prior to liner inspection)	
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)	
Description of remediation activities	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rule and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Kyle Littrell	75
Printed Name: Kyle Littrell Signature: Date: SH&E Supervisor Date: 03/29/2021	
Signature: Date: O3/29/2021	
email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331	
OCD Only	
Received by: Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate a remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsil party of compliance with any other federal, state, or local laws and/or regulations.	
Closure Approved by: Date:	
Printed Name: Title:	

	Page 7 of 6
Incident ID	NRM2026546692
District RP	
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Kyle Littrell Title: SH&E Supervisor
Title. Street Supervisor
email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331
OCD Only
Received by: Robert Hamlet Date: 7/16/2021
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Robert Hamlet Date: 7/16/2021
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

wsp

WSP USA

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

March 30, 2021

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

RE: Closure Request
PLU 25 Brushy Draw West Tank Battery
Incident Number NRM2026546692

Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the PLU 25 Brushy Draw West Tank Battery (TB) (Site) in Unit F, Section 25, Township 25 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of crude oil at the Site. Based on the excavation activities and soil sample laboratory analytical results, XTO is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number NRM2026546692.

RELEASE BACKGROUND

On September 8, 2020, an oil tank overfilled causing fluid to release out of the thief hatch. Approximately 7.5 barrels (bbls) of crude oil were released. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 7 bbls of crude oil were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on September 15, 2020. The release was assigned Incident Number NRM2026546692.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-03781, located approximately 1.3 miles north of the Site. The groundwater well was most recently measured in January 2015 has a reported depth to groundwater of 325 feet bgs and a total depth of 720 feet bgs. Ground surface elevation at the groundwater well location is 3,308



feet above mean sea level (amsl), which is approximately 33 feet lower in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Attachment 1.

During February 2021, in an effort to confirm depth to water in the area, a borehole (C-04498) was advanced to a depth of 109.7 feet bgs via truck-mounted hollow stem auger. The borehole was located approximately 0.29 miles south of the Site. The location of borehole C-04498 is provided on Figure 1. A WSP geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Attachment 2. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. On February 22, 2021, after the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 109.7 feet bgs. The borehole was properly abandoned utilizing hydrated bentonite chips.

The closest continuously flowing water or significant watercourse to the Site is an intermittent stream, located approximately 552 feet southwest 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 ACTIVITIES AND ANALYTICAL RESULTS

On September 30, 2020, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected four preliminary assessment soil samples (SS01 through SS04) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the impacted soil. The 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. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 through SS04, indicated that BTEX and/or TPH-GRO/TPH-DRO and TPH concentrations exceeded the Site Closure Criteria. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, excavation activities were warranted.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between November 24 and November 30, 2020, WSP personnel returned to the Site to oversee excavation activities. Impacted soil was excavated from the release area as indicated by visible staining, field screening activities, and laboratory analytical results for the preliminary soil samples. Excavation activities were performed using track-mounted backhoe, transport vehicle, and hydrovac. The excavation occurred on pad in between the two tank batteries. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Photographic documentation is included in Attachment 3.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS05 were collected from the floor of the excavation from a depth of 1 foot bgs. Due to the shallow depth of the excavation, the soil samples were representative of the floor and sidewalls of the excavation. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The excavation measured approximately 830 square feet. A total of approximately 30 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were backfilled.



SOIL ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 through SS04, indicated that BTEX and/or TPH-GRO/TPH-DRO and TPH concentrations exceeded the Site Closure Criteria. Based on laboratory analytical results for the preliminary soil samples, excavation of impacted soil was conducted.

Laboratory analytical results for excavation floor samples FS01 through FS05 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the September 8, 2020 release of crude oil. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the laboratory analytical results, no further remediation was required.

Initial response efforts which included removal of freestanding fluids via hydrovac and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. WSP and XTO believe these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further action for Incident Number NRM2026546692.

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

Sincerely,

WSP USA Inc.

Elizabeth Naka

Assistant Consultant, Environmental Scientist

Ashley L. Ager, P.G.

Ashley L. Ager

Managing Director, Geologist

cc: Kyle Littrell, XTO

Elizabeth Naha

Bureau of Land Management



Attachments:

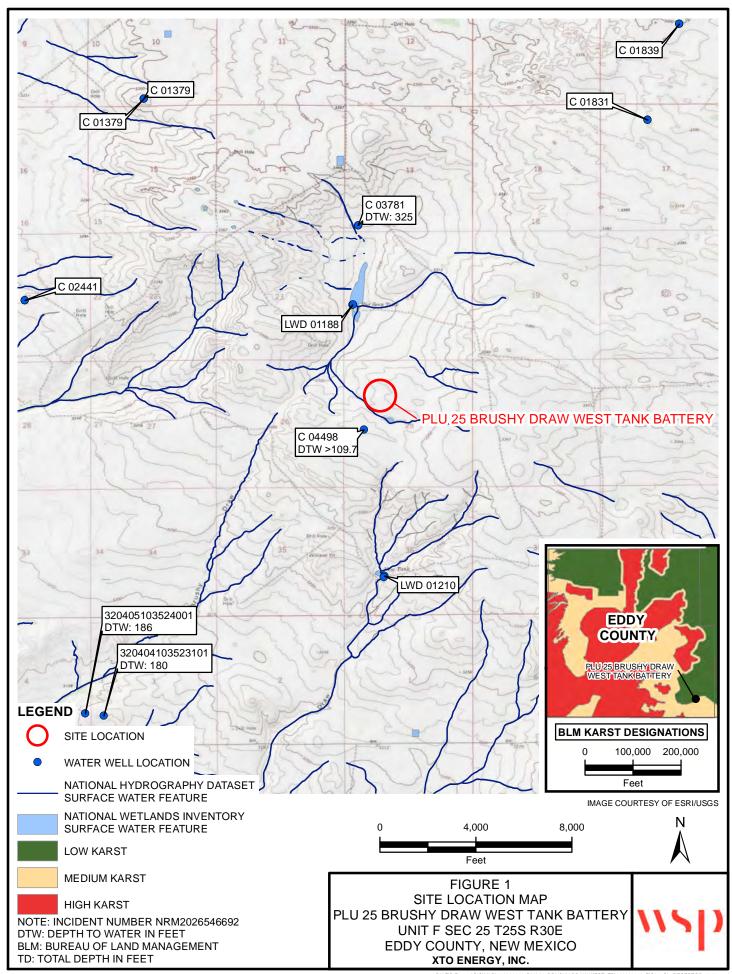
Figure 1 Site Location Map

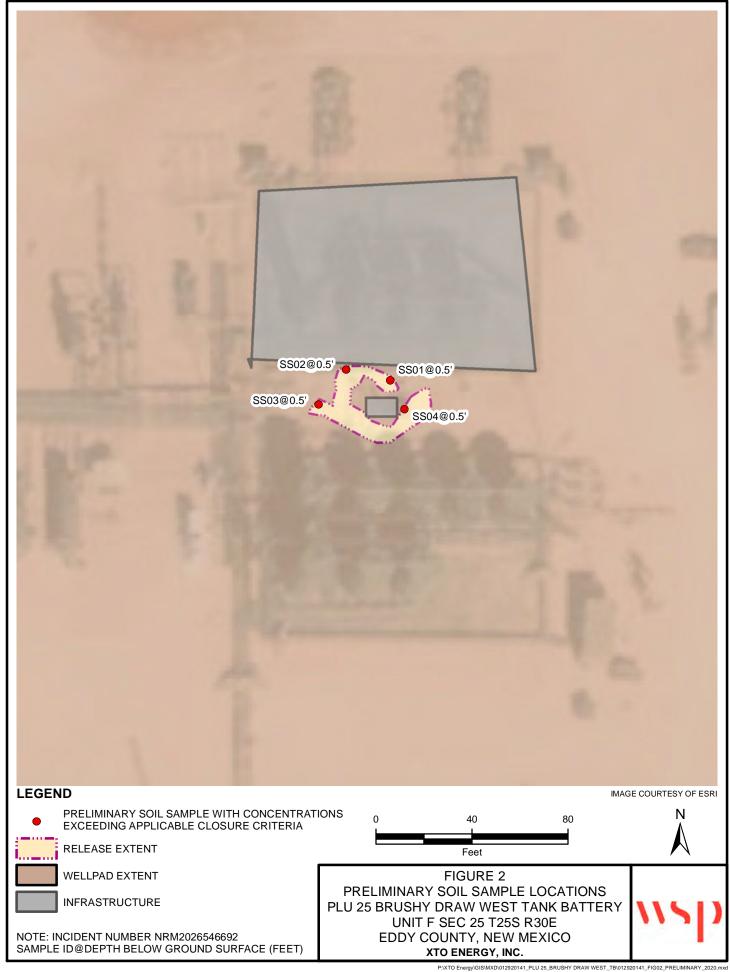
Figure 2 Preliminary Soil Sample Locations
Figure 3 Excavation Soil Sample Locations

Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records
Attachment 2 Lithologic/Soil Sampling Log

Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports





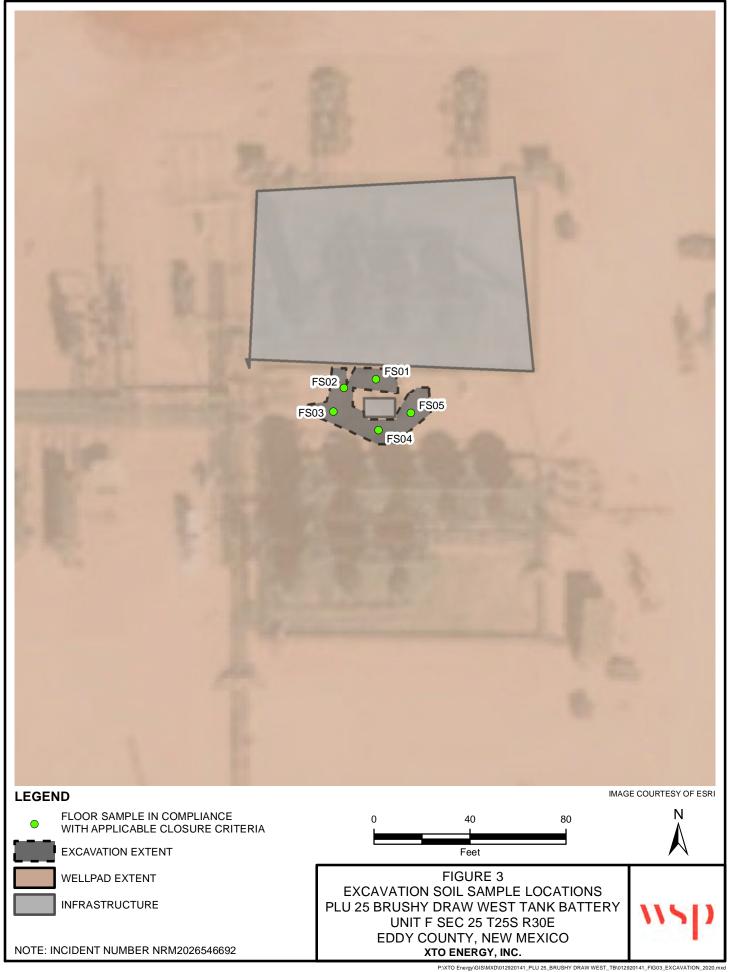


Table 1

Soil Analytical Results PLU 25 Brushy Draw West TB Incident Number: NRM2026546692 Eddy County, New Mexico XTO Energy, Inc

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	09/30/2020	0.5	< 0.0502	11.7	14,900	571	832	15,500	16,300	191
SS02	09/30/2020	0.5	< 0.0503	51.3	37,200	4,520	2,140	41,700	43,900	69.5
SS03	09/30/2020	0.5	< 0.00201	0.0180	7,380	<251	447	7,380	7,830	388
SS04	09/30/2020	0.5	< 0.0503	57.9	23,200	2,830	1,480	26,000	27,500	556
Excavation Floor Sa	mples									
FS01	11/30/2020	1	< 0.00200	< 0.002000	490	< 50.2	< 50.2	490	490	77.5
FS02	11/30/2020	1	< 0.00200	< 0.002000	266	< 50.0	< 50.0	266	266	53.3
FS03	11/30/2020	1	< 0.00201	< 0.002010	488	< 50.2	< 50.2	488	488	72.9
FS04	11/30/2020	1	< 0.00198	< 0.001980	219	< 50.0	< 50.0	219	219	48.1
FS05	11/30/2020	1	< 0.00200	< 0.002000	691	< 50.2	56.6	691	747	73.6

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

Teyt

impacted soil was removed



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

C 03781 POD1

13 25S 30E 3

609306 3554761

Driller License: 331

Driller Company: SBQ2, LLC DBA STEWART BROTHERS DRILLING

Driller Name: STEWART, JOEL H. CO.

Drill Start Date: 01/08/2015

Drill Finish Date:

Plug Date: 01/10/2015

> Source: Artesian

Log File Date: **Pump Type:**

02/19/2015 **PCW Rcv Date:** Pipe Discharge Size:

Estimated Yield:

Casing Size: 8.63 **Depth Well:**

720 feet

Depth Water: 325 feet

Water Bearing Stratifications:	Тор	Bottom	Description
	200	370	Sandstone/Gravel/Conglomerate
	370	390	Sandstone/Gravel/Conglomerate
	390	410	Sandstone/Gravel/Conglomerate
	410	440	Sandstone/Gravel/Conglomerate
	440	460	Shale/Mudstone/Siltstone
	460	470	Shale/Mudstone/Siltstone
	470	490	Shale/Mudstone/Siltstone
	490	500	Shale/Mudstone/Siltstone
	500	510	Sandstone/Gravel/Conglomerate
	510	530	Shale/Mudstone/Siltstone
	530	660	Shale/Mudstone/Siltstone
	660	690	Shale/Mudstone/Siltstone
	690	700	Shale/Mudstone/Siltstone
	700	720	Shale/Mudstone/Siltstone
Casing Perforations:	Тор	Bottom	
	340	720	

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.

	\\')	Ca	WSF 508 West S rlsbad, New L SAMPLI	Mexico	88220		BH or PH Name: BH01 Site Name: RP or Incident Numb LTE Job Number: Logged By SL		Date: 2/24/2021 D 202H, 121H, 901 NRM2011453506 069 Method:	
Lat/Lo	ng:			3.840412	Field Screen				Hole Diameter:		Total Depth:	Tioliow Claim August
0		No field o	orooni	ng only logg	ed lithology, v	voll coroo	nad fram (20.7' 100	6.5"		109.7'	
Comm	ients:	No neiu s	screem	rig, orliy logg	eu iitriology, v	veli scree		9.7 - 109.	·			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			ithology/R		
					_	_ 0		0-34'	Caliche, tan, no	odor, no s	stain, gravel, dr	У
D			N		- - - - - - - - -	5 10 15 20 25 30 35	CCHE	-13' no (gravel	n, no odor	. no stain. m-f	grain. well sorted.
					-	40		dry				
					- - - - -	45 50 55	SP-SM		sand, tan, no odo			
D			N		- - - -	60 65 70	SS		grain, well sorted			
					_	75	SP-SM	12 - 19	sand, tan, no odo	or, no stali	n, m-r grain, we	eli sortea, ary
М			N		- - - - - - - - -	80 85 90 95 100 105	SS	79' - 109	0.7' sandstone, lov m-f grained, well			n, tan, no odor,
					- -	115			TD @ 109.7'			



	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	PLU 25 Brushy Draw West Tank Battery	NRM2026546692
	Eddy County, New Mexico	

Photo No. Date
September 30,
2020

View of release area facing east.

ist.

Photo No.	Date
2	September 30,
Z	2020
View of impo	stad amaa faaima

View of impacted area facing northwest





	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	PLU 25 Brushy Draw West Tank Battery	NRM2026546692
	Eddy County, New Mexico	

Photo No.	Date
2	November 25,
3	2020
View of final exca	avation facing east.



Photo No.

Date

November 25,
2020

View of final excavation facing
North.





	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	PLU 25 Brushy Draw West Tank Battery	NRM2026546692
	Eddy County, New Mexico	

Photo No. Date

November 25,
2020

View of final excavation facing northeast.



Photo No.	Date
4	November 25,
4	2020
X7' C C'	1 1 1 1 1 1

View of final backfill.





	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	PLU 25 Brushy Draw West TB	NRM2026546692
	Eddy County, New Mexico	

hoto No.	Date		
	November 25,	25,	MA.
5	2020	1	
View of fin			

eurofins Environment Testing

Certificate of Analysis Summary 674010

LT Environmental, Inc., Arvada, CO

Project Name: PLU 25 Bushy Draw West TB

Project Id: Contact:

Project Location:

012920141

Dan Moir

Date Received in Lab: Wed 09.30.2020 16:15

Report Date: 10.05.2020 13:08

Project Manager: Jessica Kramer

	Lab Id:	674010-0	001	674010-0	02	674010-0	003	674010-0	004		
Analysis Requested	Field Id:	SS01		SS02		SS03		SS04			
	Depth:	0.5- ft		0.5- ft		0.5- ft		0.5- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	09.30.2020	13:00	09.30.2020	13:10	09.30.2020	13:20	09.30.2020	13:30		
BTEX by EPA 8021B	Extracted:	10.01.2020	17:05	10.01.2020	17:05	10.01.2020	17:05	10.01.2020	17:05		
	Analyzed:	10.02.2020 08:45		10.02.2020	09:07	10.02.2020 08:22		10.02.2020	09:30		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.0502	0.0502	< 0.0503	0.0503	< 0.00201	0.00201	< 0.0503	0.0503		
Toluene		< 0.0502	0.0502	3.85	0.201	< 0.00201	0.00201	2.72	0.201		
Ethylbenzene		4.56	0.201	4.85	0.201	< 0.00201	0.00201	8.52	0.201		
m,p-Xylenes		5.37	0.402	33.8	0.402	0.0138	0.00402	36.9	0.402		
o-Xylene		1.78	0.201	8.79	0.201	0.00420	0.00201	9.79	0.201		
Total Xylenes		7.15	0.201	42.6	0.201	0.0180	0.00201	46.7	0.201		
Total BTEX		11.7	0.0502	51.3	0.0503	0.0180	0.00201	57.9	0.0503		
Chloride by EPA 300	Extracted:	10.01.2020	10:00	10.01.2020	10:00	10.01.2020	10:00	10.01.2020	10:00		
	Analyzed:	10.01.2020	12:19	10.01.2020	12:24	10.01.2020 12:41 10.01.2020 12:46		12:46			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		191	49.7	69.5	49.9	388	49.8	556	49.9		
TPH by SW8015 Mod	Extracted:	10.02.2020	17:30	10.02.2020	17:30	10.01.2020	11:00	10.02.2020	17:30		
	Analyzed:	10.03.2020	.03.2020 03:42		10.03.2020 04:22		10.01.2020 21:38		04:02		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		571	251	4520	501	<251	251	2830	249		
Diesel Range Organics (DRO)		14900	251	37200	501	7380	251	23200	249		
Motor Oil Range Hydrocarbons (MRO)		832	251	2140	501	447	251	1480	249		
Total GRO-DRO		15500	251	41700	501	7380	251	26000	249		
Total TPH		16300	251	43900	501	7830	251	27500	249		

BRL - Below Reporting Limit

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

Jessica Weamer



Analytical Report 674010

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 25 Bushy Draw West TB 012920141 10.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

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



10.05.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 674010

PLU 25 Bushy Draw West TB

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 674010. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 674010 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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 674010

LT Environmental, Inc., Arvada, CO

PLU 25 Bushy Draw West TB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	09.30.2020 13:00	0.5 ft	674010-001
SS02	S	09.30.2020 13:10	0.5 ft	674010-002
SS03	S	09.30.2020 13:20	0.5 ft	674010-003
SS04	S	09.30.2020 13:30	0.5 ft	674010-004

Xenco

Environment Testing

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU 25 Bushy Draw West TB

Project ID: Report Date: 10.05.2020 012920141 Work Order Number(s): 674010 Date Received: 09.30.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Xenco

Certificate of Analytical Results 674010

LT Environmental, Inc., Arvada, CO

PLU 25 Bushy Draw West TB

Sample Id: **SS01** Matrix: Soil

Date Received:09.30.2020 16:15

Wet Weight

Lab Sample Id: 674010-001 Date Collected: 09.30.2020 13:00 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

MAB

Prep Method: E300P

MAB

% Moisture:

Seq Number: 3138619

Tech:

Analyst:

Date Prep: 10.01.2020 10:00 Basis:

Result **Parameter** Cas Number RLUnits **Analysis Date** Dil Flag Chloride 16887-00-6 191 49.7 mg/kg 10.01.2020 12:19 5

Analytical Method: TPH by SW8015 Mod

DTH

Prep Method: SW8015P

% Moisture:

DTH Tech:

Analyst:

Date Prep: 10.02.2020 17:30 Basis: Wet Weight

Seq Number: 3138825

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	571	251		mg/kg	10.03.2020 03:42		5
Diesel Range Organics (DRO)	C10C28DRO	14900	251		mg/kg	10.03.2020 03:42		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	832	251		mg/kg	10.03.2020 03:42		5
Total GRO-DRO	PHC628	15500	251		mg/kg	10.03.2020 03:42		5
Total TPH	PHC635	16300	251		mg/kg	10.03.2020 03:42		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	129	%	70-135	10.03.2020 03:42		
o-Terphenyl		84-15-1	127	%	70-135	10.03.2020 03:42		



Certificate of Analytical Results 674010

LT Environmental, Inc., Arvada, CO

PLU 25 Bushy Draw West TB

Sample Id: SS01 Matrix: Soil Date Received:09.30.2020 16:15

Lab Sample Id: 674010-001 Date Collected: 09.30.2020 13:00 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 10.01.2020 17:05 Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0502	0.0502		mg/kg	10.02.2020 08:45	U	100
Toluene	108-88-3	< 0.0502	0.0502		mg/kg	10.02.2020 08:45	U	100
Ethylbenzene	100-41-4	4.56	0.201		mg/kg	10.02.2020 08:45		100
m,p-Xylenes	179601-23-1	5.37	0.402		mg/kg	10.02.2020 08:45		100
o-Xylene	95-47-6	1.78	0.201		mg/kg	10.02.2020 08:45		100
Total Xylenes	1330-20-7	7.15	0.201		mg/kg	10.02.2020 08:45		100
Total BTEX		11.7	0.0502		mg/kg	10.02.2020 08:45		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	95	%	70-130	10.02.2020 08:45		
4-Bromofluorobenzene		460-00-4	115	%	70-130	10.02.2020 08:45		



Certificate of Analytical Results 674010

LT Environmental, Inc., Arvada, CO

PLU 25 Bushy Draw West TB

Soil

10.01.2020 10:00

Sample Id: **SS02** Matrix:

Lab Sample Id: 674010-002 Date Collected: 09.30.2020 13:10 Date Received:09.30.2020 16:15

Sample Depth: 0.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

Tech: Analyst: MAB

Date Prep:

% Moisture:

Basis:

Wet Weight

Seq Number: 3138619

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	69.5	49.9	mg/kg	10.01.2020 12:24		5

Analytical Method: TPH by SW8015 Mod

DTH Tech:

Analyst: DTH

Seq Number: 3138825

10.02.2020 17:30

% Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Cas Number **Parameter** Result RLUnits **Analysis Date** Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 4520 501 10.03.2020 04:22 mg/kg 10 Diesel Range Organics (DRO) C10C28DRO 37200 501 10.03.2020 04:22 10 mg/kg Motor Oil Range Hydrocarbons (MRO) PHCG2835 2140 501 10.03.2020 04:22 10 mg/kg **Total GRO-DRO** PHC628 41700 501 mg/kg 10.03.2020 04:22 10 **Total TPH** PHC635 43900 501 10.03.2020 04:22 10 mg/kg Flag

Date Prep:

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	99	%	70-135	10.03.2020 04:22
o-Terphenyl	84-15-1	98	%	70-135	10.03.2020 04:22

SS02

MAB

Analytical Method: BTEX by EPA 8021B

Sample Id:

Tech:

Certificate of Analytical Results 674010

LT Environmental, Inc., Arvada, CO

PLU 25 Bushy Draw West TB

Matrix: Soil Date Received:09.30.2020 16:15

Lab Sample Id: 674010-002 Date Collected: 09.30.2020 13:10 Sample Depth: 0.5 ft

540-36-3

Prep Method: SW5035A

10.02.2020 09:07

% Moisture:

Analyst: MAB Date Prep: 10.01.2020 17:05 Basis: Wet Weight

Seq Number: 3138736

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0503	0.0503		mg/kg	10.02.2020 09:07	U	100
Toluene	108-88-3	3.85	0.201		mg/kg	10.02.2020 09:07		100
Ethylbenzene	100-41-4	4.85	0.201		mg/kg	10.02.2020 09:07		100
m,p-Xylenes	179601-23-1	33.8	0.402		mg/kg	10.02.2020 09:07		100
o-Xylene	95-47-6	8.79	0.201		mg/kg	10.02.2020 09:07		100
Total Xylenes	1330-20-7	42.6	0.201		mg/kg	10.02.2020 09:07		100
Total BTEX		51.3	0.0503		mg/kg	10.02.2020 09:07		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	107	%	70-130	10.02.2020 09:07		

92

%

70-130

Certificate of Analytical Results 674010

LT Environmental, Inc., Arvada, CO

PLU 25 Bushy Draw West TB

Sample Id: SS03 Matrix: Soil

Date Received:09.30.2020 16:15

Lab Sample Id: 674010-003 Date Collected: 09.30.2020 13:20

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 10.01.2020 10:00

Basis:

Wet Weight

Seq Number: 3138619

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	388	49.8	mg/kg	10.01.2020 12:41		5

Analytical Method: TPH by SW8015 Mod

DTH

Prep Method: SW8015P

10.01.2020 21:38

% Moisture:

70-135

Tech: DTH

Analyst:

Date Prep: 10.01.2020 11:00

Basis: Wet Weight

Seq Number: 3138645

o-Terphenyl

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<251	251		mg/kg	10.01.2020 21:38	U	5
Diesel Range Organics (DRO)	C10C28DRO	7380	251		mg/kg	10.01.2020 21:38		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	447	251		mg/kg	10.01.2020 21:38		5
Total GRO-DRO	PHC628	7380	251		mg/kg	10.01.2020 21:38		5
Total TPH	PHC635	7830	251		mg/kg	10.01.2020 21:38		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	109	%	70-135	10.01.2020 21:38		

122

84-15-1

Xenco

Certificate of Analytical Results 674010

LT Environmental, Inc., Arvada, CO

PLU 25 Bushy Draw West TB

Sample Id: SS03 Matrix: Soil Date Received:09.30.2020 16:15

Lab Sample Id: 674010-003 Date Collected: 09.30.2020 13:20 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 10.01.2020 17:05 Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	10.02.2020 08:22	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	10.02.2020 08:22	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	10.02.2020 08:22	U	1
m,p-Xylenes	179601-23-1	0.0138	0.00402		mg/kg	10.02.2020 08:22		1
o-Xylene	95-47-6	0.00420	0.00201		mg/kg	10.02.2020 08:22		1
Total Xylenes	1330-20-7	0.0180	0.00201		mg/kg	10.02.2020 08:22		1
Total BTEX		0.0180	0.00201		mg/kg	10.02.2020 08:22		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	97	%	70-130	10.02.2020 08:22		
4-Bromofluorobenzene		460-00-4	94	%	70-130	10.02.2020 08:22		

Xenco

Certificate of Analytical Results 674010

LT Environmental, Inc., Arvada, CO

PLU 25 Bushy Draw West TB

Sample Id: SS04

Matrix: Soil

Date Received:09.30.2020 16:15

Lab Sample Id: 674010-004

Date Collected: 09.30.2020 13:30

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

10.01.2020 10:00

Basis:

Wet Weight

Seq Number: 3138619

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	556	49.9	mg/kg	10.01.2020 12:46		- 5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

Analyst: DTH

Date Prep: 10.02.2020 17:30

Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2830	249		mg/kg	10.03.2020 04:02		5
Diesel Range Organics (DRO)	C10C28DRO	23200	249		mg/kg	10.03.2020 04:02		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1480	249		mg/kg	10.03.2020 04:02		5
Total GRO-DRO	PHC628	26000	249		mg/kg	10.03.2020 04:02		5
Total TPH	PHC635	27500	249		mg/kg	10.03.2020 04:02		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-135	10.03.2020 04:02		
o-Terphenyl		84-15-1	86	%	70-135	10.03.2020 04:02		



Certificate of Analytical Results 674010

LT Environmental, Inc., Arvada, CO

PLU 25 Bushy Draw West TB

Sample Id: SS04 Matrix: Soil Date Received:09.30.2020 16:15

Lab Sample Id: 674010-004 Date Collected: 09.30.2020 13:30 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 10.01.2020 17:05 Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0503	0.0503		mg/kg	10.02.2020 09:30	U	100
Toluene	108-88-3	2.72	0.201		mg/kg	10.02.2020 09:30		100
Ethylbenzene	100-41-4	8.52	0.201		mg/kg	10.02.2020 09:30		100
m,p-Xylenes	179601-23-1	36.9	0.402		mg/kg	10.02.2020 09:30		100
o-Xylene	95-47-6	9.79	0.201		mg/kg	10.02.2020 09:30		100
Total Xylenes	1330-20-7	46.7	0.201		mg/kg	10.02.2020 09:30		100
Total BTEX		57.9	0.0503		mg/kg	10.02.2020 09:30		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	115	%	70-130	10.02.2020 09:30		
1,4-Difluorobenzene		540-36-3	92	%	70-130	10.02.2020 09:30		



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 Detection Limit LOD Limit of Detection

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

MB Sample Id:

QC Summary 674010

LT Environmental, Inc.

PLU 25 Bushy Draw West TB

Analytical Method: Chloride by EPA 300

3138619 Seg Number:

7712430-1-BLK

Matrix: Solid LCS Sample Id: 7712430-1-BKS

E300P Prep Method:

Date Prep: 10.01.2020 LCSD Sample Id: 7712430-1-BSD

E300P

E300P

SW8015P

Flag

Flag

Prep Method:

Prep Method:

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

Chloride <10.0 250 249 100 251 90-110 20 10.01.2020 10:14 100 1 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: Seq Number: 3138619 Matrix: Soil Date Prep: 10.01.2020

MS Sample Id: 674026-001 S MSD Sample Id: 674026-001 SD Parent Sample Id: 674026-001

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

10.01.2020 11:13 Chloride 36.4 200 241 102 241 102 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3138619 Matrix: Soil Date Prep: 10.01.2020

MS Sample Id: 674026-011 S MSD Sample Id: 674026-011 SD Parent Sample Id: 674026-011

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

20 10.01.2020 12:08 Chloride 748 200 938 95 942 97 90-110 0 mg/kg

Analytical Method: TPH by SW8015 Mod

3138645 Matrix: Solid Seq Number: Date Prep: 10.01.2020

LCS Sample Id: 7712464-1-BKS LCSD Sample Id: 7712464-1-BSD MB Sample Id: 7712464-1-BLK

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

Gasoline Range Hydrocarbons (GRO) 10.01.2020 11:07 35 < 50.0 1000 1080 108 1080 108 70-135 0 mg/kg 10.01.2020 11:07 Diesel Range Organics (DRO) 70-135 35 < 50.0 1000 1140 114 1120 112 2 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Date Flag %Rec Flag

10.01.2020 11:07 1-Chlorooctane 110 125 127 70-135 % 10.01.2020 11:07 o-Terphenyl 99 111 109 70-135 %

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method: 3138825 Matrix: Solid Date Prep: 10.02.2020

Seq Number: LCS Sample Id: 7712612-1-BKS LCSD Sample Id: 7712612-1-BSD MB Sample Id: 7712612-1-BLK

MB Spike LCS LCS %RPD RPD Units LCSD LCSD Limits Analysis **Parameter** Limit Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 10.02.2020 19:56 1000 1010 101 982 35 < 50.0 98 70-135 3 mg/kg 10.02.2020 19:56 Diesel Range Organics (DRO) 1070 70-135 < 50.0 1000 1090 109 107 2 35 mg/kg

MB MB LCS LCS LCSD Units Analysis LCSD Limits **Surrogate** Flag Date %Rec Flag %Rec %Rec Flag 10.02.2020 19:56 1-Chlorooctane 96 125 119 70-135 % 10.02.2020 19:56 o-Terphenyl 90 108 104 70-135 %

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

Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

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

LCS = Laboratory Control Sample = Parent Result

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

Flag

Flag

Flag

Flag

QC Summary 674010

LT Environmental, Inc.

PLU 25 Bushy Draw West TB

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138645 Matrix: Solid

SW8015P Prep Method:

Date Prep: 10.01.2020

MB Sample Id: 7712464-1-BLK

< 50.0

< 50.0

MB **Parameter** Result

Units Analysis

10.01.2020 11:47 mg/kg

Date

Analytical Method: TPH by SW8015 Mod

Seq Number:

Motor Oil Range Hydrocarbons (MRO)

Motor Oil Range Hydrocarbons (MRO)

3138825

Matrix: Solid

MB Sample Id: 7712612-1-BLK

Prep Method: SW8015P

> Date Prep: 10.02.2020

MB

Parameter Result Units Analysis Date

10.02.2020 20:37 mg/kg

Analytical Method: TPH by SW8015 Mod

3138645 Seq Number: Parent Sample Id:

SW8015P Prep Method:

Date Prep: 10.01.2020

MS Sample Id: 674009-002 S MSD Sample Id: 674009-002 SD 674009-002

Spike **RPD** MS MS %RPD Units Parent MSD **MSD** Limits Analysis **Parameter** Result Result Limit Date Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) <49.9 998 3 35 10.01.2020 12:27 1130 113 1100 111 70-135 mg/kg Diesel Range Organics (DRO) 100 998 1260 116 1210 70-135 4 35 mg/kg 10.01.2020 12:27 112

Matrix: Soil

MS MS **MSD** Limits Units Analysis MSD **Surrogate** Flag Flag %Rec %Rec Date 10.01.2020 12:27 1-Chlorooctane 134 133 70 - 135% o-Terphenyl 116 111 70-135 % 10.01.2020 12:27

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138825 Parent Sample Id:

674035-001 S MS Sample Id: 674035-001

Prep Method: SW8015P

10.02.2020

Date Prep: MSD Sample Id: 674035-001 SD

%RPD RPD **Parent** Spike MS MS **MSD MSD** Limits Units Analysis **Parameter** Result Limit Date Result %Rec Amount Result %Rec Gasoline Range Hydrocarbons (GRO) 35 10.02.2020 21:17 <49.8 996 995 100 977 98 70-135 2 mg/kg 10.02.2020 21:17 <49.8 996 1070 107 1070 70-135 0 Diesel Range Organics (DRO) 107 35 mg/kg

Matrix: Soil

MS MS **MSD** Limits Units Analysis **MSD Surrogate** %Rec Flag %Rec Flag Date 10.02.2020 21:17 1-Chlorooctane 124 121 70-135 % 10.02.2020 21:17 o-Terphenyl 108 106 70-135 %

Flag

QC Summary 674010

LT Environmental, Inc.

PLU 25 Bushy Draw West TB

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3138736Matrix:SolidDate Prep:10.01.2020MB Sample Id:7712469-1-BLKLCS Sample Id:7712469-1-BKSLCSD Sample Id:7712469-1-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	0.113	113	0.116	116	70-130	3	35	mg/kg	10.01.2020 23:26	
Toluene	< 0.00200	0.100	0.108	108	0.112	112	70-130	4	35	mg/kg	10.01.2020 23:26	
Ethylbenzene	< 0.00200	0.100	0.0992	99	0.103	103	71-129	4	35	mg/kg	10.01.2020 23:26	
m,p-Xylenes	< 0.00400	0.200	0.200	100	0.208	104	70-135	4	35	mg/kg	10.01.2020 23:26	
o-Xylene	< 0.00200	0.100	0.0994	99	0.103	103	71-133	4	35	mg/kg	10.01.2020 23:26	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	99		ç	98		98		70	-130	%	10.01.2020 23:26	
4-Bromofluorobenzene	88		8	38		89		70	-130	%	10.01.2020 23:26	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

 Seq Number:
 3138736
 Matrix:
 Soil
 Date Prep:
 10.01.2020

 Parent Sample Id:
 674009-054
 MS Sample Id:
 674009-054 S
 MSD Sample Id:
 674009-054 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00198	0.0990	0.110	111	0.120	120	70-130	9	35	mg/kg	10.02.2020 09:52
Toluene	< 0.00198	0.0990	0.103	104	0.116	116	70-130	12	35	mg/kg	10.02.2020 09:52
Ethylbenzene	< 0.00198	0.0990	0.121	122	0.115	115	71-129	5	35	mg/kg	10.02.2020 09:52
m,p-Xylenes	< 0.00396	0.198	0.196	99	0.213	107	70-135	8	35	mg/kg	10.02.2020 09:52
o-Xylene	< 0.00198	0.0990	0.0964	97	0.104	104	71-133	8	35	mg/kg	10.02.2020 09:52

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		97		70-130	%	10.02.2020 09:52
4-Bromofluorobenzene	99		91		70-130	%	10.02.2020 09:52

Project Manager: Company Name: LT Environm Dan Moir

City, State ZIP:

Address:

Chain of Custody

Work Order No: 674515

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San An

Reportin	Cariadad, INIVI 00220	77	
	City. State ZIP: Carlehad NIM 80000	City State ZIP	
State	3104 East Green Street	Address:	
Progran	XTO Energy	Company Name: XTO Energy	, Permian office
	Kyle Littrell	Bill to: (if different) Kyle Littrell	
\$13-620-2000)			The second secon
	Hobbs, NM (575-392-7550) Phoenix AZ (480-355-0900) Atlanta GA (770 440 8800) T	92-7550) Phoenix,AZ (48	Hobbs, NM (575-39
<i></i>	midiand, IX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296	and, IX (432-704-5440)	MIGIE
34	3334 (210) 509-3334		

.(Work Order Notes	ANALYSIS REQUEST		
000		ANALYSIS DESCRIPTION	Turn Around	The as orang Draw West TB
)	ADAPI Other:			01:1 7 0:11
			Email: slo@ltenv.com, dmoir@ltenv.com	(432) 230-3849
	Reporting:Level III ST/UST RRP Pevel IV	Carradad, ININ 00220	100000000000000000000000000000000000000	מומר מכר ורכונו
		Carlehad NIM 88220	City, State ZIP:	Midiand, 1X 79705
	ect:	State of Project:		Will TV TOTAL
	Diowinields Lkkc Duperfund		Address:	3300 North A Street
	DOT TODO TO TOTAL TODO		Company Ivalie. ATO Energy	
	ANDIA CINET CONTINENTS	VTO F		LI Environmental, Inc., Permian office
	Work Order Comment	Nyle Littlell	Cit Co. (ii dilielelli)	
	www.xeiico.com rage or	V. J. 1 34 - 11	Bill to: (if different)	Dan Moir
		(1770-449-8800) Tampa FL (813-620-2000) Atlanta GA (770-449-8800) Tampa FL (813-620-2000)	The same sood is morning, the	
		200 255 0000	(575-392-7550) Phoenix A7	Hobbs.NN

y O	Je b	Rervice. Xenco will be liable only for the cost of signature. A minimum charge of \$75.00 will be applied Relinquished by: (Signature)	Circle Method(s) and Metal(s) to be analyzed Signature of this document and relinquishment of samples	Total and Ticara			1,455	5 5055		556/	Sample Identification M	Sample Custody Seals: Yes No	Yes NO	Xes	Temperature (°C):	SAMPLE RECEIPT Temp Blank:	Sampler's Name: Spi	P.O. Number:	Project Number: 0129 2014	-
4	received by: (Signature)	amples and shall not assume any responsibility for a to each project and a charge of \$5 for each sample	BRCRA 13PPM Texas 11 Al analyzed TCLP / SPLP 6010: 8RCRA				9.30.20 1336 0.51	9.30.20 1320 0.5'		5 9.20 1300 0.51	Matrix Sampled Sampled Depth	N/A Total Containers:	VIA Corre	No TOTAL DE LOS	Thermomotor ID	Blank: Yes No Wet Ice: Yes No	Spencer Lo Due Date:		Routine	i unii Around
	Date/Time Relinquished by: (Signature)	ervice. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of the co	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn I CRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag		pa h	-	- × × ×	- x x x x	×	× 1	Numbe IPH (EP BTEX (E Chloride	A 80	15) =802	(1)	ers					ANALYSIS REQUEST
	Received by: (Signature) Date/Time		Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn lo Ni Se Ag Tl U 1631/245.1/7470/7471:Hg							Compre Comments	Sample Composite	TAT starts the day recevied by the							ANOW Order Notes	Work Order Notes

Revised Date 051418 Rev. 2018.1

eurofins Environment Testing Xenco

Certificate of Analysis Summary 679227

LT Environmental, Inc., Arvada, CO

Project Name: PLU 23 Brushy Draw West TB

Project Id:

012920141

Date Received in Lab: Mon 11.30.2020 11:15

Contact:

Dan Moir

Report Date: 12.02.2020 15:56

Project Location:

Eddy County, New Mexico

Project Manager: Jessica Kramer

	Lab Id:	679227-0	01	679227-0	02	679227-0	003	679227-0	004	679227-0	005	679227-0	006
Analysis Requested	Field Id:	FS01		FS02		FS03		FS04		FS05		SW01	
Analysis Requesieu	Depth:	1- ft		0-1 ft									
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		SOIL	
	Sampled:	11.30.2020	08:35	11.30.2020	08:40	11.30.2020	08:45	11.30.2020	08:50	11.30.2020	08:55	11.30.2020	09:00
BTEX by EPA 8021B	Extracted:	12.01.2020	11:17	12.01.2020	11:17	12.01.2020	11:17	12.01.2020	11:17	12.01.2020	11:17	12.01.2020	11:17
	Analyzed:	12.01.2020	15:13	12.01.2020	15:35	12.01.2020	15:58	12.01.2020	16:20	12.01.2020	16:43	12.01.2020	17:05
	Units/RL:	mg/kg	RL										
Benzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00199	0.00199
Toluene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00199	0.00199
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00199	0.00199
m,p-Xylenes		< 0.00399	0.00399	< 0.00401	0.00401	< 0.00402	0.00402	< 0.00396	0.00396	< 0.00399	0.00399	< 0.00398	0.00398
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00199	0.00199
Total Xylenes		< 0.002000	0.002000	< 0.002000	0.002000	< 0.002010	0.002010	< 0.001980	0.001980	< 0.002000	0.002000	< 0.001990	0.001990
Total BTEX		< 0.002000	0.002000	< 0.002000	0.002000	< 0.002010	0.002010	< 0.001980	0.001980	< 0.002000	0.002000	< 0.001990	0.001990
Chloride by EPA 300	Extracted:	12.01.2020	12:40	12.01.2020	12:40	12.01.2020	12:40	12.01.2020	12:40	12.01.2020	12:40	12.01.2020	12:40
	Analyzed:	12.01.2020	16:42	12.01.2020	16:47	12.01.2020	16:52	12.01.2020	16:57	12.01.2020	17:13	12.01.2020	17:18
	Units/RL:	mg/kg	RL										
Chloride		77.5	9.96	53.3	9.96	72.9	10.0	48.1	10.0	73.6	10.0	96.0	9.90
TPH by SW8015 Mod	Extracted:	11.30.2020	17:03	11.30.2020	17:03	11.30.2020	17:03	11.30.2020	17:03	11.30.2020	17:03	11.30.2020	17:03
	Analyzed:	12.01.2020	04:08	12.01.2020	04:29	12.01.2020	04:49	12.01.2020	05:09	12.01.2020	05:29	12.01.2020	05:49
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	< 50.0	50.0	< 50.2	50.2	< 50.0	50.0	< 50.2	50.2	< 50.0	50.0
Diesel Range Organics (DRO)		490	50.2	266	50.0	488	50.2	219	50.0	691	50.2	569	50.0
Motor Oil Range Hydrocarbons (MRO)		< 50.2	50.2	< 50.0	50.0	< 50.2	50.2	< 50.0	50.0	56.6	50.2	< 50.0	50.0
Total GRO-DRO		490.0	50.20	266.0	50.00	488.0	50.20	219.0	50.00	691.0	50.20	569.0	50.00
Total TPH		490.0	50.20	266.0	50.00	488.0	50.20	219.0	50.00	747.6	50.20	569.0	50.00

BRL - Below Reporting Limit

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

Jessica Wramer



Analytical Report 679227

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 23 Brushy Draw West TB 012920141 12.02.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

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



12.02.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 679227

PLU 23 Brushy Draw West TB

Project Address: Eddy County, New Mexico

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 679227. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 679227 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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 679227

LT Environmental, Inc., Arvada, CO

PLU 23 Brushy Draw West TB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	11.30.2020 08:35	1 ft	679227-001
FS02	S	11.30.2020 08:40	1 ft	679227-002
FS03	S	11.30.2020 08:45	1 ft	679227-003
FS04	S	11.30.2020 08:50	1 ft	679227-004
FS05	S	11.30.2020 08:55	1 ft	679227-005
SW01	S	11.30.2020 09:00	0 - 1 ft	679227-006

CASE NARRATIVE

Environment Testing Xenco

Client Name: LT Environmental, Inc. Project Name: PLU 23 Brushy Draw West TB

 Project ID:
 012920141
 Report Date:
 12.02.2020

 Work Order Number(s):
 679227
 Date Received:
 11.30.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Xenco

Certificate of Analytical Results 679227

LT Environmental, Inc., Arvada, CO

PLU 23 Brushy Draw West TB

Matrix: Soil Date Received:11.30.2020 11:15

Lab Sample Id: 679227-001 Date Collected: 11.30.2020 08:35 Sample Depth: 1 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

FS01

MAB Tech:

Sample Id:

MAB Analyst:

Date Prep: 12.01.2020 12:40 % Moisture:

Basis: Wet Weight Seq Number: 3143660

Analysis Date Parameter Cas Number Result RL Units Flag Dil Chloride 16887-00-6 77.5 12.01.2020 16:42 9.96 mg/kg

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

% Moisture: CAC Analyst: Date Prep: 11.30.2020 17:03

Basis: Wet Weight Seq Number: 3143541

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	12.01.2020 04:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	490	50.2		mg/kg	12.01.2020 04:08		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	12.01.2020 04:08	U	1
Total GRO-DRO	PHC628	490.0	50.20		mg/kg	12.01.2020 04:08		1
Total TPH	PHC635	490.0	50.20		mg/kg	12.01.2020 04:08		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	114	%	70-135	12.01.2020 04:08		
o-Terphenyl		84-15-1	108	%	70-135	12.01.2020 04:08		

Certificate of Analytical Results 679227

LT Environmental, Inc., Arvada, CO

PLU 23 Brushy Draw West TB

Sample Id: FS01 Matrix: Soil Date Received:11.30.2020 11:15

Lab Sample Id: 679227-001 Date Collected: 11.30.2020 08:35 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 12.01.2020 11:17 % Moisture:

Seq Number: 3143649

Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.01.2020 15:13	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.01.2020 15:13	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.01.2020 15:13	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.01.2020 15:13	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.01.2020 15:13	U	1
Total Xylenes	1330-20-7	< 0.002000	0.002000		mg/kg	12.01.2020 15:13	U	1
Total BTEX		< 0.002000	0.002000		mg/kg	12.01.2020 15:13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	12.01.2020 15:13		
4-Bromofluorobenzene		460-00-4	116	%	70-130	12.01.2020 15:13		

Xenco

Certificate of Analytical Results 679227

LT Environmental, Inc., Arvada, CO

PLU 23 Brushy Draw West TB

Sample Id: FS02

Matrix: Soil

RL

9.96

Date Received:11.30.2020 11:15

Lab Sample Id: 679227-002

Date Collected: 11.30.2020 08:40

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Duam

Units

mg/kg

Prep Method: E300P

Tech:

Analyst:

MAB MAB

Date Prep:

12.01.2020 12:40

% Moisture:

Basis:

Wet Weight

Flag

Dil

Seq Number: 3143660

Parameter Cas Number Result

Chloride 16887-00-6 **53.3**

Analysis Date

12.01.2020 16:47

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

MAB

Analyst: CAC Seq Number: 3143541 Date Prep: 11.30.2020 17:03

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	12.01.2020 04:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	266	50.0		mg/kg	12.01.2020 04:29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	12.01.2020 04:29	U	1
Total GRO-DRO	PHC628	266.0	50.00		mg/kg	12.01.2020 04:29		1
Total TPH	PHC635	266.0	50.00		mg/kg	12.01.2020 04:29		1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

 Surrogate
 Cas Number
 % Recovery
 Units
 Limits
 Analysis Date

 1-Chlorooctane
 111-85-3
 116
 %
 70-135
 12.01.2020 04:29

 o-Terphenyl
 84-15-1
 108
 %
 70-135
 12.01.2020 04:29

Wet Weight

12.01.2020 15:35

70-130

Certificate of Analytical Results 679227

LT Environmental, Inc., Arvada, CO

PLU 23 Brushy Draw West TB

Sample Id: FS02 Matrix: Soil Date Received:11.30.2020 11:15

Lab Sample Id: 679227-002 Date Collected: 11.30.2020 08:40 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 12.01.2020 11:17 % Moisture: Basis:

460-00-4

Seq Number: 3143649

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.01.2020 15:35	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.01.2020 15:35	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.01.2020 15:35	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	12.01.2020 15:35	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.01.2020 15:35	U	1
Total Xylenes	1330-20-7	< 0.002000	0.002000		mg/kg	12.01.2020 15:35	U	1
Total BTEX		< 0.002000	0.002000		mg/kg	12.01.2020 15:35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1.4-Difluorobenzene		540-36-3	101	%	70-130	12.01.2020 15:35		

111

Date Received:11.30.2020 11:15

Certificate of Analytical Results 679227

LT Environmental, Inc., Arvada, CO

PLU 23 Brushy Draw West TB

Sample Id: FS03 Matrix: Soil

Lab Sample Id: 679227-003 Date Collected: 11.30.2020 08:45 Sample Depth: 1 ft

Date Concered. 11.30.2020 00.45

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Seq Number: 3143660

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	72.9	10.0	mg/kg	12.01.2020 16:52		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.30.2020 17:03 % Moisture:

Seq Number: 3143541

Bate Piep: 11.30.2020 17.03

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	12.01.2020 04:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	488	50.2		mg/kg	12.01.2020 04:49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	12.01.2020 04:49	U	1
Total GRO-DRO	PHC628	488.0	50.20		mg/kg	12.01.2020 04:49		1
Total TPH	PHC635	488.0	50.20		mg/kg	12.01.2020 04:49		1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	111	%	70-135	12.01.2020 04:49
o-Terphenyl	84-15-1	105	%	70-135	12.01.2020 04:49

Certificate of Analytical Results 679227

LT Environmental, Inc., Arvada, CO

PLU 23 Brushy Draw West TB

Sample Id: FS03 Matrix: Soil Date Received:11.30.2020 11:15

Lab Sample Id: 679227-003 Date Collected: 11.30.2020 08:45 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 12.01.2020 11:17 % Moisture:

Seq Number: 3143649

Date Prep: 12.01.2020 11:17

Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	12.01.2020 15:58	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	12.01.2020 15:58	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	12.01.2020 15:58	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	12.01.2020 15:58	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	12.01.2020 15:58	U	1
Total Xylenes	1330-20-7	< 0.002010	0.002010		mg/kg	12.01.2020 15:58	U	1
Total BTEX		< 0.002010	0.002010		mg/kg	12.01.2020 15:58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	12.01.2020 15:58		
4-Bromofluorobenzene		460-00-4	121	%	70-130	12.01.2020 15:58		

Certificate of Analytical Results 679227

LT Environmental, Inc., Arvada, CO

PLU 23 Brushy Draw West TB

Sample Id: FS04

Matrix: Soil

Date Received:11.30.2020 11:15

Lab Sample Id: 679227-004

Date Collected: 11.30.2020 08:50

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

c by

Prep Method: E300P

Tech: MAB

MAB

Date Prep: 12.01.2020 12:40

% Moisture:

Analyst:

Seq Number: 3143660

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	48.1	10.0	mg/kg	12.01.2020 16:57		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

12.01.2020 05:09

Tech:

MAB

Analyst: CAC Seq Number: 3143541

o-Terphenyl

Date Prep: 11.30.2020 17:03

% Moisture:

Basis:

70-135

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	12.01.2020 05:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	219	50.0		mg/kg	12.01.2020 05:09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	12.01.2020 05:09	U	1
Total GRO-DRO	PHC628	219.0	50.00		mg/kg	12.01.2020 05:09		1
Total TPH	PHC635	219.0	50.00		mg/kg	12.01.2020 05:09		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	112	%	70-135	12.01.2020 05:09		

103

84-15-1

Wet Weight

Certificate of Analytical Results 679227

LT Environmental, Inc., Arvada, CO

PLU 23 Brushy Draw West TB

Sample Id: FS04 Matrix: Soil Date Received:11.30.2020 11:15

Lab Sample Id: 679227-004 Date Collected: 11.30.2020 08:50 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 12.01.2020 11:17 % Moisture: Basis:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198	mg/kg	12.01.2020 16:20	U	1
Toluene	108-88-3	< 0.00198	0.00198	mg/kg	12.01.2020 16:20	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	mg/kg	12.01.2020 16:20	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396	mg/kg	12.01.2020 16:20	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	mg/kg	12.01.2020 16:20	U	1
Total Xylenes	1330-20-7	< 0.001980	0.001980	mg/kg	12.01.2020 16:20	U	1
Total BTEX		< 0.001980	0.001980	mg/kg	12.01.2020 16:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	70-130	12.01.2020 16:20	
1,4-Difluorobenzene	540-36-3	101	%	70-130	12.01.2020 16:20	

Xenco

Certificate of Analytical Results 679227

LT Environmental, Inc., Arvada, CO

PLU 23 Brushy Draw West TB

Sample Id: FS05

Matrix: Soil

Date Received:11.30.2020 11:15

Lab Sample Id: 679227-005

Date Collected: 11.30.2020 08:55

Sample Depth: 1 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech: MAB

Seq Number: 3143660

Analyst:

MAB

Date Prep: 12.01.2020 12:40

% Moisture:

Basis:

: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	73.6	10.0	mg/kg	12.01.2020 17:13		1	-

Analytical Method: TPH by SW8015 Mod

Tech:

MAB

Analyst: CAC Seq Number: 3143541

Date F

Date Prep: 11.30.2020 17:03

% Moisture:

Prep Method: SW8015P

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	12.01.2020 05:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	691	50.2		mg/kg	12.01.2020 05:29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	56.6	50.2		mg/kg	12.01.2020 05:29		1
Total GRO-DRO	PHC628	691.0	50.20		mg/kg	12.01.2020 05:29		1
Total TPH	PHC635	747.6	50.20		mg/kg	12.01.2020 05:29		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Wet Weight

eurofins Environment Testing

Certificate of Analytical Results 679227

LT Environmental, Inc., Arvada, CO

PLU 23 Brushy Draw West TB

Sample Id: FS05 Matrix: Soil Date Received:11.30.2020 11:15

Lab Sample Id: 679227-005 Date Collected: 11.30.2020 08:55 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 12.01.2020 11:17 % Moisture: Basis:

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.01.2020 16:43	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.01.2020 16:43	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.01.2020 16:43	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.01.2020 16:43	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.01.2020 16:43	U	1
Total Xylenes	1330-20-7	< 0.002000	0.002000		mg/kg	12.01.2020 16:43	U	1
Total BTEX		< 0.002000	0.002000		mg/kg	12.01.2020 16:43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	12.01.2020 16:43		
4-Bromofluorobenzene		460-00-4	117	%	70-130	12.01.2020 16:43		

Certificate of Analytical Results 679227

LT Environmental, Inc., Arvada, CO

PLU 23 Brushy Draw West TB

Sample Id: **SW01** Matrix: Soil Date Received:11.30.2020 11:15

Lab Sample Id: 679227-006 Date Collected: 11.30.2020 09:00 Sample Depth: 0 - 1 ft

Date Prep:

Analytical Method: Chloride by EPA 300

Tech: MAB

MAB Analyst:

Seq Number: 3143660

Prep Method: E300P

12.01.2020 12:40

% Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	96.0	9.90	mg/kg	12.01.2020 17:18		1

Analytical Method: TPH by SW8015 Mod

Tech: MAB

CAC Analyst: Seq Number: 3143541

Date Prep: 11.30.2020 17:03 % Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	12.01.2020 05:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	569	50.0		mg/kg	12.01.2020 05:49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	12.01.2020 05:49	U	1
Total GRO-DRO	PHC628	569.0	50.00		mg/kg	12.01.2020 05:49		1
Total TPH	PHC635	569.0	50.00		mg/kg	12.01.2020 05:49		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Wet Weight



Certificate of Analytical Results 679227

LT Environmental, Inc., Arvada, CO

PLU 23 Brushy Draw West TB

Sample Id: SW01 Matrix: Soil Date Received:11.30.2020 11:15

Lab Sample Id: 679227-006 Date Collected: 11.30.2020 09:00 Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 12.01.2020 11:17 % Moisture: Basis:

540-36-3

Seq Number: 3143649

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	12.01.2020 17:05	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	12.01.2020 17:05	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	12.01.2020 17:05	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	12.01.2020 17:05	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	12.01.2020 17:05	U	1
Total Xylenes	1330-20-7	< 0.001990	0.001990		mg/kg	12.01.2020 17:05	U	1
Total BTEX		< 0.001990	0.001990		mg/kg	12.01.2020 17:05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	114	%	70-130	12.01.2020 17:05		

97

70-130

12.01.2020 17:05



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 Detection Limit LOD Limit of Detection

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 679227

LT Environmental, Inc.

PLU 23 Brushy Draw West TB

7716174-1-BKS

Analytical Method: Chloride by EPA 300

Seq Number: 3143660

7716174-1-BLK

Matrix: Solid

E300P Prep Method:

Date Prep: 12.01.2020

LCSD Sample Id: 7716174-1-BSD

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

Chloride

MB Sample Id:

<10.0

241 96

LCS Sample Id:

239

96 90-110

1

12.01.2020 16:14 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

3143660 679158-041 Matrix: Soil

Prep Method: Date Prep:

20

E300P

12.01.2020

Parent Sample Id:

Parent Spike Result Amount

MS Sample Id: MS MS Result %Rec

MSD Result

679158-041 S

MSD Limits %Rec

%RPD RPD Limit

MSD Sample Id: 679158-041 SD Units

Analysis Flag

Chloride

Parameter

306

493

94 485 90

90-110

2 20 mg/kg

Date 12.01.2020 16:31

Analytical Method: Chloride by EPA 300

Seq Number:

3143660

200

250

Matrix: Soil

MS Sample Id: 679266-002 S Prep Method: Date Prep:

12.01.2020

Parent Sample Id: **Parameter**

679266-002 Parent

Spike Amount

MS MS %Rec

MSD Result

MSD Limits %Rec

%RPD

MSD Sample Id: 679266-002 SD Units

E300P

Analysis Flag

Chloride

Result 58.9 200 Result 255

98 248

94 90-110

Limit 3 20

mg/kg

Date 12.01.2020 17:44

Analytical Method: TPH by SW8015 Mod

Seq Number:

3143541

Matrix: Solid

Prep Method:

RPD

SW8015P

Date Prep: 11.30.2020

MB Sample Id:

7716126-1-BLK

LCS Sample Id:

7716126-1-BKS

LCSD Sample Id: 7716126-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis **Parameter** Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 12.01.2020 02:28 1030 103 35 < 50.0 1000 1000 100 70-135 3 mg/kg 12.01.2020 02:28 Diesel Range Organics (DRO) 1070 107 70-135 4 35 < 50.0 1000 1110 111 mg/kg

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		110		103		70-135	%	12.01.2020 02:28
o-Terphenyl	105		118		117		70-135	%	12.01.2020 02:28

Analytical Method: TPH by SW8015 Mod

Seq Number:

3143541

Page 19 of 22

Matrix: Solid

Prep Method:

SW8015P

Date Prep:

11.30.2020

MS = Matrix Spike

B = Spike Added

D = MSD/LCSD % Rec

Parameter

MB Sample Id: 7716126-1-BLK

Flag

Flag

Motor Oil Range Hydrocarbons (MRO)

< 50.0

MB

Result

Units mg/kg

Date 12.01.2020 02:08

Analysis

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

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

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

LCS = Laboratory Control Sample = Parent Result

= MS/LCS Result E = MSD/LCSD Result

Flag

Flag

Flag

Seq Number:

Parent Sample Id:

MB Sample Id:

QC Summary 679227

LT Environmental, Inc.

PLU 23 Brushy Draw West TB

Analytical Method: TPH by SW8015 Mod

3143541

Matrix: Soil 679158-041 MS Sample Id: 679158-041 S

SW8015P Prep Method:

Date Prep:

11.30.2020

MSD Sample Id: 679158-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	<49.9	997	1120	112	1060	106	70-135	6	35	mg/kg	12.01.2020 03:29
Diesel Range Organics (DRO)	<49.9	997	1050	105	997	100	70-135	5	35	mg/kg	12.01.2020 03:29

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		105		70-135	%	12.01.2020 03:29
o-Terphenyl	112		109		70-135	%	12.01.2020 03:29

Analytical Method: BTEX by EPA 8021B

Seq Number: 3143649

7716203-1-BLK

Matrix: Solid

LCS Sample Id: 7716203-1-BKS

Prep Method:

SW5035A

Date Prep: 12.01.2020

LCSD Sample Id: 7716203-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.0953	95	0.0933	93	70-130	2	35	mg/kg	12.01.2020 12:46
Toluene	< 0.00200	0.100	0.0921	92	0.0885	89	70-130	4	35	mg/kg	12.01.2020 12:46
Ethylbenzene	< 0.00200	0.100	0.0950	95	0.0910	91	71-129	4	35	mg/kg	12.01.2020 12:46
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.189	95	70-135	4	35	mg/kg	12.01.2020 12:46
o-Xylene	< 0.00200	0.100	0.0984	98	0.0939	94	71-133	5	35	mg/kg	12.01.2020 12:46
Surrogate	MB %Rec	MB Flag	LC:		LCS Flag	LCSI			imits	Units	Analysis Date

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag		Date
1,4-Difluorobenzene	103		97		100	70-130	%	12.01.2020 12:46
4-Bromofluorobenzene	115		109		107	70-130	%	12.01.2020 12:46

Analytical Method: BTEX by EPA 8021B

Seq Number: 3143649 Parent Sample Id:

679158-041

Matrix: Soil

MS Sample Id: 679158-041 S

Prep Method: Date Prep:

SW5035A

12.01.2020

MSD Sample Id: 679158-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	I
Benzene	< 0.00200	0.100	0.106	106	0.101	101	70-130	5	35	mg/kg	12.01.2020 13:31	
Toluene	< 0.00200	0.100	0.0999	100	0.0935	94	70-130	7	35	mg/kg	12.01.2020 13:31	
Ethylbenzene	< 0.00200	0.100	0.102	102	0.0992	99	71-129	3	35	mg/kg	12.01.2020 13:31	
m,p-Xylenes	< 0.00401	0.200	0.211	106	0.201	100	70-135	5	35	mg/kg	12.01.2020 13:31	
o-Xylene	< 0.00200	0.100	0.104	104	0.0974	97	71-133	7	35	mg/kg	12.01.2020 13:31	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		97		70-130	%	12.01.2020 13:31
4-Bromofluorobenzene	116		110		70-130	%	12.01.2020 13:31

Received h	v OC	D:	4/13	/2021	2:26:2	24 PM
Received by		3	3 2			1 1
		II X	S =			1 1

Project Manaç

Chain of Custody

Work Order No: 679227

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

		The second secon	() () () () () () () () () ()	-000			
	ABORATORIES	Midland, TX (432-704-5440)	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	1296		,	
	Hobb	s,NM (575-392-7550) Phoenix,AZ (Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa,	fampa,FL (813-620-2000)	www.xenco.com Page	le of /	
Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell		Com	its	
Company Name:	LT Environmental, Inc., Permian office	fice Company Name: XTO Energy	XTO Energy	Program: UST/PST RP Trownfields RC Sperfund	P Frownfields	RC 3 perfund	
Address:	3300 North A Street	Address:	522 West Mermond	State of Project:		Ç	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	Carlsbad, NM 88220	Reporting:Level II	TSU/TR III I	RP Ulyel IV	
Phone:	(432) 236-3849	Email: enaka@itenv.com, dmoir@itenv.com	.dmoir@itenv.com	Deliverables: EDD	ADaPT	Other:	L
						THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	L

Revised Date 051418 Rev. 2018.1			ō				
			4		-		6.0
			11.30.20 1115 2		Cash	C Lu	Yunton I da
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	nature)	Received by: (Signature)	>	Relinquished by: (Signature)
	terms and conditions ces beyond the control ously negotiated.	of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	n client company to Xenco, its af ny losses or expenses incurred b submitted to Xenco, but not ana	ind purchase order from iny responsibility for ar of \$5 for each sample	amples constitutes a value and shall not assume a sch project and a charge	only for the cost of samples f \$75.00 will be applied to ea	of service. Xenco will be liable of Xenco. A minimum charge
Na Sr II Sn U V Zn 1631/245.1/7470/7471: Hg	d Sioz	d Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	CRA Sb As Ba Be Cd Cr Co Cu Pb	TCLP / SPLP 6010: 8RCRA Sb As	yzed TCLP /	Circle Method(s) and Metal(s) to be analyzed	Circle Method(s) a
		2000	Do Do	13DDM Town 1	- 11	200 8 / 6020-	Total 200 7 / 6010
			1,000				
		Ch.	GAMMAN Y 1				
			and the same				
	<u> </u>		€ € €	0'-1'	€ Og No	(Swol
		487			5,580		FS 05
				1,	0550		FS04
				1	0845		FS03
				ا ا	0340		FS02
Composit	(cm)		1 X X X	5 1'	55 80 00/28/N	5	1361
Sample Comments	Sai		Number TPH (EI BTEX (I	e Depth	Date Time Sampled Sampled	ation Matrix	Sample Identification
lab, if received by 4:30pm	lab,		PA 8	ners: Lp	Total Containers:	Yes Nb N/A	Sample Custody Seals:
TAT starts the day recevied by the	TAT state		015) 0=80	ctor: - 0.2	Correction Factor:	-	Cooler Custody Seals:
)21)	,007	NEW	Yes No	Received Intact:
				neter ID	Thermometer ID	1:0/0.8	Temperature (°C):
				Wet Ice: Yes No	Wes No Wes	Temp Blank:	SAMPLE RECEIPT
				Due Date:		Elizabeth Naka	Sampler's Name:
				Rush:		Eddy County	P.O. Number:
				Routine X		012920141	Project Number:
Work Order Notes	W	ANALYSIS REQUEST		Turn Around	I AN WOST TO	TLU is Broshy	Project Name:

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 11.30.2020 11.15.00 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 679227

Analyst:

Temperature Measuring device used: T_NM_007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		.8	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contai	ner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	Samples received in bulk containers.
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headsp	ace?	N/A	

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

Checklist completed by:

Cloe Clifton

Checklist reviewed by:

Lession Warmer

PH Device/Lot#:

Jacoba Kramar

Date: 11.30.2020

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

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

Action 23926

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
,	Action Number:
Midland, TX 79707	23926
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2026546692 PLU 25 BRUSHY DRAW WEST TB, thank you. This closure is approved.	7/16/2021