

July 28, 2025

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request

Poker Lake Unit CVX JV BS 02H API Number 30-015-37147 Incident Number NAB1625934302

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Closure Request* as a follow-up to the *Deferral Request* dated March 20, 2020. The *Deferral Request* was approved by the New Mexico Oil Conservation Division (NMOCD) on June 9, 2020. This *Closure Request* documents the excavation and soil sampling activities completed at the Poker Lake Unit (PLU) CVX JV BS 02H, formerly named PLU Big Sinks 11 Federal Battery (Site) following final plugging and abandonment of the well and removal of the surface production equipment from the deferred area. Based on the additional remediation activities described below, XTO is submitting this *Closure Request* and requesting no further action and closure for Incident Number NAB1625934302.

SITE DESCRIPTION AND RELEASE BACKGROUND

The Site is located in Unit P, Section 11, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.225776°, -103.846785°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On September 13, 2016, a Victaulic check valve cap failed on the LACT unit resulting in the release of approximately 79 barrels (bbls) of crude oil onto the well pad surface. A vacuum truck was used to recover approximately 42 bbls of released fluid. XTO reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141) on September 14, 2016. The release was assigned Remediation Permit (RP) Number 2RP-3887 and Incident Number NAB1625934302.

The release was included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the NMOCD effective November 13, 2018. The purpose of the Compliance Agreement was to ensure that reportable releases that occurred prior to August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) as amended on August 14, 2018.

The Site was characterized to determine the applicability of Table I Closure Criteria for Soils Impacted by a Release, of 19.15.29 NMAC. Results from the characterization desktop review were detailed in the approved *Deferral Request*. Potential Site receptors are identified on Figure 1.

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Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) were applied:

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

Total petroleum hydrocarbons (TPH): 100 mg/kg

Chloride: 600 mg/kg

Between February 2018 and December 2019, delineation and excavation activities were conducted at the Site to address the impacted soil resulting from the September 13, 2016, crude oil release. Impacted soil was excavated to the maximum extent possible; however, an estimated 800 cubic yards of impacted soil were left in place to comply with XTO safety policy regarding earth-moving activities within 2-feet of active tanks and production equipment. The impacted soil left in place was laterally and vertically delineated to below the Site Closure Criteria. Additional details regarding the delineation and excavation activities can be referenced in the original March 10, 2020, *Deferral Request*.

On June 9, 2020, the *Deferral Request* was approved by the NMOCD. The *Deferral Request* is included as an attachment to this report.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

The Site was plugged and abandoned (P&A) on November 6, 2024, and all surface production equipment was removed from the Site.

During March 2025, Ensolum personnel were at the Site to oversee excavation activities to address the deferred, impacted soil that was left in place around former production equipment, as indicated by March 2019 and December 2019 excavation sidewall samples SW06, SW07, SW16, SW17, and SW18. The 2019 excavation extent and relevant soil sample locations are presented on Figure 2. The 2019 excavation activities and laboratory analytical results for the 2019 excavation floor samples FS01 through FS26 and sidewall samples SW01 through SW18 are detailed in the attached *Deferral Request*. The 2025 excavation activities were performed using a track hoe and transport vehicles. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The excavation was completed to depths ranging from 8 feet to 19 feet below ground surface (bgs).

Following removal of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls 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 FS27 through FS61 were collected from the floor of the excavation at depths ranging from 8 feet to 19 feet bgs. Composite soil samples SW19 through SW46 were collected from the sidewalls of the excavation at depths ranging from the ground surface to a maximum of 19 feet bgs. The excavation extent and soil sample locations are presented on Figure 2. Photographic documentation of the excavation activities is included in Appendix A.

The 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 under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM 4500.



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Laboratory analytical results for the excavation floor samples and excavation sidewall samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for excavation floor samples FS37, FS38, FS48, FS53, FS54, FS56, FS57, FS60 and excavation sidewall samples SW20, SW30, SW37, and SW38 initially exceeded the Site Closure Criteria for TPH and/or chloride; additional soil was removed from these areas and subsequent floor samples FS37A, FS38A, FS48A, FS53A, FS54A, FS56A, FS57A, FS60A and sidewall samples SW20, SW30, SW37, and SW38 were in compliance. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix B.

The excavation area measured approximately 6,970 square feet. Approximately 3,000 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. Disposal manifests are available upon request.

RECLAMATION ACTIVITIES

Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled with locally procured soil. One representative 5-point composite sample (BS01) was collected from the topsoil backfill material. The backfill soil sample was handled and analyzed following the same procedures as described above. Laboratory analytical results for the backfill soil sample confirmed compliance with the NMOCD requirement for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical report is included as Appendix B.

Following backfill activities, the well pad was leveled, and the surface was prepared for final pad reclamation activities. The well pad will be seeded during 2025 when temperatures and precipitation are the most conducive to vegetation growth. The reclaimed well pad will be seeded with the BLM loamy sites seed mix #1 at the rate specified in pounds of pure live seed (PLS) per acre.

Species/Cultivar	PLS/Acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Plains love grass (Eragrostis intermedia)	0.5
Plains bristlegrass (Setaria macrostachya)	2.0
Sideoats grama (Bouteloua curtipendula)	5.0

The seed mix will be applied via drill seeding or broadcast seeding. If broadcast seeding is selected, the PLS/acre will be doubled and the seed will be raked in by chaining or dragging the Site. Photographs of the backfilled excavation area are provided in Appendix A.

The Site will be monitored for vegetation growth to ensure that reclamation activities were successful. Focus for this phase will be to prevent erosion and site degradation, and to monitor for and treat invasive and noxious weed species.

- Erosion control of the newly reclaimed areas includes prompt revegetation and contouring of the surface to prevent concentrated surface water flow.
- Annual inspections will take place at the location to assess revegetation progress until vegetation is consistent with local natural vegetation density.
- If necessary, an additional application of the BLM seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by a licensed contracted herbicide applicator or mechanically removed.



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A *Revegetation Report* will be submitted to the NMOCD once vegetation growth in the reclaimed area has uniform vegetative cover that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

CLOSURE REQUEST

Excavation activities were conducted at the Site to address the impacted soil resulting from the September 13, 2016, crude oil release. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation is required. A copy of the *Deferral Request*, detailing the 2019 excavation activities, is included as Appendix C.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. XTO believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAB1625934302.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Mouissey

Senior Managing Geologist

Tacoma Morrissev

Sincerely, **Ensolum, LLC**

Aimee Cole

Senior Managing Scientist

cc: Colton Brown, XTO

Kaylan Dirkx, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

Figure 2 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results

Appendix A Photographic Log

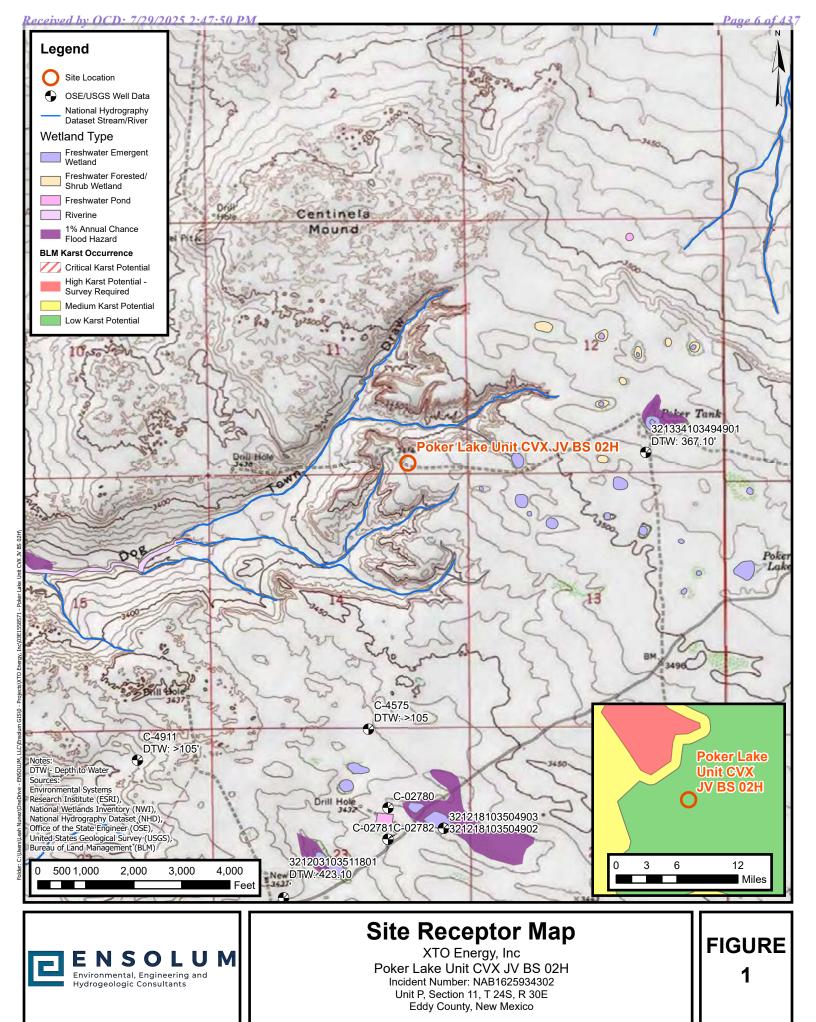
Appendix B Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix C March 10, 2020, Deferral Request





FIGURES



Released to Imaging: 8/18/2025 2:58:10 PM



Excavation Soil Sample Locations

XTO Energy, Inc.
Poker Lake Unit CVX JV BS 02H
Incident Number: NAB1625934302
Unit P, Section 11, T 24S, R 30E
Eddy County, New Mexico

FIGURE 2



TABLES



TABLE1 SOIL SAMPLE ANALYTICAL RESULTS Poker Lake Unit CVX JV BS 02H

XTO Energy, Inc.

Sample		Depth	Benzene	Total BTEX	y County, New M	TPH DRO	TPH ORO	GRO+DRO	Total TPH	Chloride
Designation	Sample Date	(feet bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD Reclan	nation Requireme four feet	nt for the top	NE	NE	NE	NE	NE	NE	100	600
				Exca	avation Floor Sar	nples				
FS27	03/12/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS28	03/12/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS29	03/12/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS30	03/12/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS31	03/12/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS32	03/12/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS33	03/12/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS34	03/12/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS35	03/12/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS36	03/12/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS37	03/12/2025	8	< 0.050	< 0.300	<10.0	754	171	754	925	32.0
FS37A	03/26/2025	12	< 0.050	<0.300	<10.0	10.8	<10.0	10.8	10.8	<16.0
FS38	03/12/2025	8	< 0.050	< 0.300	<10.0	842	203	842	1,045	32.0
FS38A	03/26/2025	12	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS39	03/12/2025	8	<0.050	<0.300	<10.0	<10.0	14.4	<10.0	14.4	112
FS40	03/12/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS41	03/12/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS42	03/12/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS43	03/12/2025	15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS44	03/12/2025	15	<0.050	<0.300	<10.0	23.2	<10.0	23.2	23.2	48.0
FS45	03/12/2025	15	<0.050	<0.300	<10.0	27.1	<10.0	27.1	27.1	48.0
FS46	03/12/2025	15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS47	03/12/2025	15	<0.050	<0.300	<10.0	36.7	<10.0	36.7	36.7	48.0



TABLE1

SOIL SAMPLE ANALYTICAL RESULTS

Poker Lake Unit CVX JV BS 02H XTO Energy, Inc.

				Eddy	y County, New M	exico				
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclan	nation Requireme four feet	ent for the top	NE	NE	NE	NE	NE	NE	100	600
FS48	03/13/2025	15	< 0.050	< 0.300	<10.0	115	25.6	115	141	64.0
FS48A	03/26/2025	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS49	03/13/2025	15	<0.050	<0.300	<10.0	10.3	<10.0	10.3	10.3	48.0
FS50	03/13/2025	15	<0.050	<0.300	<10.0	16.1	<10.0	16.1	16.1	32.0
FS51	03/13/2025	15	<0.050	<0.300	<10.0	32.0	<10.0	32.0	32.0	32.0
FS52	03/13/2025	15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS53	03/13/2025	15	< 0.050	<0.300	<10.0	141	31.0	141	172	48.0
FS53A	03/26/2025	19	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS54	03/13/2025	15	< 0.050	<0.300	<10.0	227	65.8	227	293	32.0
FS54A	03/26/2025	19	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS55	03/13/2025	15	<0.050	<0.300	<10.0	77.9	19.2	77.9	97.1	32.0
FS56	03/13/2025	15	< 0.050	<0.300	<10.0	462	102	462	564	16.0
FS56A	03/26/2025	18	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS57	03/13/2025	15	< 0.050	<0.300	<10.0	333	64.3	333	397	48.0
FS57A	03/26/2025	18	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS58	03/13/2025	15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS59	03/13/2025	15	<0.050	<0.300	<10.0	37.5	<10.0	37.5	37.5	32.0
FS60	03/13/2025	15	< 0.050	<0.300	13.9	1,060	187	1,060	1,261	16.0
FS60A	03/26/2025	18	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS61	03/13/2025	15	<0.050	<0.300	<10.0	<10.0	10.9	<10.0	10.9	32.0
				Excav	ation Sidewall S	amples				
SW19	03/12/2025	0-8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW20	03/12/2025	0-8	< 0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	896
SW20	03/26/2025	0-11	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW21	03/12/2025	0-8	<0.050	<0.300	<10.0	10.5	<10.0	10.5	10.5	336



TABLE1

SOIL SAMPLE ANALYTICAL RESULTS

Poker Lake Unit CVX JV BS 02H XTO Energy, Inc. Eddy County, New Mexico

				Eddy	y County, New M	exico				
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclan	nation Requireme four feet	ent for the top	NE	NE	NE	NE	NE	NE	100	600
SW22	03/12/2025	0-8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW23	03/12/2025	0-8	< 0.050	<0.300	<10.0	11.2	<10.0	11.2	11.2	80.0
SW24	03/12/2025	0-8	<0.050	<0.300	<10.0	10.7	<10.0	10.7	10.7	48.0
SW25	03/12/2025	0-8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW26	03/12/2025	0-8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW27	03/12/2025	0-8	<0.050	<0.300	<10.0	25.2	<10.0	25.2	25.2	64.0
SW28	03/12/2025	0-8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW29	03/13/2025	0-15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW30	03/13/2025	0-15	< 0.050	<0.300	<10.0	83.0	19.8	83.0	103	32.0
SW30	03/26/2025	0-18	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW31	03/13/2025	0-15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW32	03/13/2025	0-15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW33	03/13/2025	0-15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW34	03/13/2025	0-15	<0.050	<0.300	<10.0	20.2	<10.0	20.2	20.2	16.0
SW35	03/13/2025	0-15	<0.050	<0.300	<10.0	23.1	<10.0	23.1	23.1	<16.0
SW36	03/13/2025	0-15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW37	03/13/2025	0-15	< 0.050	<0.300	<10.0	641	173	641	814	32.0
SW37	03/26/2025	0-19	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW38	03/13/2025	0-15	<0.050	<0.300	<10.0	123	37.7	123	161	48.0
SW38	03/26/2025	0-19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW39	03/13/2025	0-15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW40	03/13/2025	0-15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW41	03/13/2025	0-15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW42	03/13/2025	0-15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0



TABLE1

SOIL SAMPLE ANALYTICAL RESULTS

Poker Lake Unit CVX JV BS 02H XTO Energy, Inc.

Eddy County, New Mexico

				Luu	y County, New M	EXICO				
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclan	nation Requireme four feet	nt for the top	NE	NE	NE	NE	NE	NE	100	600
SW43	03/13/2025	0-15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW44	03/13/2025	0-15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW45	03/13/2025	0-15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW46	03/13/2025	0-15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
				Backf	ill Confirmation S	Sample				
BS01	05/13/2025	0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

< : Indicates result less than the stated laboratory reporting limit

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NA: Not Analyzed NE: Not Established Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria and/or reclamation standard where applicable.

Grey text represents samples that have been excavated.



APPENDIX A

Photographic Log



Photographic Log

XTO Energy, Inc.
Poker Lake Unit CVX JV BS 02H
NAB1625934302





Photograph: 1 Date: 3/12/2025 Description: Deferral excavation extent 15' deep

View: Northwest

Photograph: 2 Date: 3/12/2025

Description: Deferral excavation (8' section)
View: West



Photograph: 3 Date: 3/26/2025

Description: Excavation extent 15-19'

View: Southwest

Photograph: 4 Date: 5/29/2025

Description: Backfilled Excavation

View: West



APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation



May 16, 2025

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU CVX JV BS 02H

Enclosed are the results of analyses for samples received by the laboratory on 05/15/25 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Wite Sough

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/15/2025 Sampling Date: 05/13/2025

Reported: 05/16/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 (RECLAMATION) Sample Received By: Tamara Oldaker

Project Location: XTO 32.2258606, -103.8471069

Sample ID: BS 01 0 (H252936-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2025	ND	2.15	108	2.00	1.47	
Toluene*	<0.050	0.050	05/16/2025	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	05/16/2025	ND	2.14	107	2.00	1.22	
Total Xylenes*	<0.150	0.150	05/16/2025	ND	6.40	107	6.00	1.22	
Total BTEX	<0.300	0.300	05/16/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/16/2025	ND	480	120	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2025	ND	188	93.9	200	1.42	
DRO >C10-C28*	<10.0	10.0	05/15/2025	ND	199	99.4	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	05/15/2025	ND					
Surrogate: 1-Chlorooctane	97.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.8	% 40.6-15	3						

Cardinal Laboratories *=Accredited Analyte

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

Received by OCD: 7/29/2025 2:47:50 PM

4

Page 4 of



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	Encolum II.C							- 11	Bill I	В	IL	L TO	は無数				AN	IALYS	SIS RI	EQUE	ST		
Project Manager								P	.0.	#:							\top						
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	National Parks Hw		_	00	220					Amy				ш	- 1	- 1					ll		
city: Carlsbad		State: NM	Zip:	00	220							4 E. Gre	en St	ш					1				
Phone #: 844-	500-7775	Fax #:			_			_	_	-			on ot.						1				
Project #: 03E1	1558571	Project Owner	: X1	0	Ener	gy				Carls			0	ı		- 1					ı		
Project Name: F	PLU CVX JV BS 02	H - Reclamation	on					_ 8	State	: NM	- 2	zip: 8822	U		- 1	- 1					1 1		
Project Location	n: 32.2258606, -103	.8471069						F	hon	10 #:						- 1							
Sampler Name:	Bowan Simmons								ax i							- 1							
FOR LAB USE DILY			П	П	-	MA	TRD		P	RESER	4	SAMP	LING										
Lab I.D. <i>H25393</i> 6	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	DIL	SLUDGE	DIMER:	ICE / COOL -	OTHER:	DATE	TIME	CHLORIDE	втех	ТРН							
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Relinquished By:	Date: 15.25 Time: 400	Received By:	Verbal Result: Yes No Add Phone #: All Results are emailed. Please provide Email address: ACole@ensolum.com, TMorrissey@ensolum.com, HGreen@ensolum.com
Relinquished By:	Date: Time:	Received By:	REMARKS: API: 30-015-37147 AFE: PA.2024.08097.EXP.01
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. "C	Cool Infact (Initians)	Turnaround Time: Standard Rush

[†] Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallebs.nrn.com



March 05, 2025

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: PLU CVX JV BS 02H

Enclosed are the results of analyses for samples received by the laboratory on 03/04/25 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.2258606, -103.8471069

Sample ID: FS 27 6' (H251276-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	1.91	95.6	2.00	11.2	
Toluene*	<0.050	0.050	03/04/2025	ND	2.23	112	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	7.03	117	6.00	12.3	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	196	97.8	200	5.62	
DRO >C10-C28*	605	10.0	03/04/2025	ND	191	95.7	200	6.13	
EXT DRO >C28-C36	204	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	86.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	102	% 40.6-15	3						

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Celley & Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.2258606, -103.8471069

Sample ID: FS 28 4' (H251276-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	1.91	95.6	2.00	11.2	
Toluene*	<0.050	0.050	03/04/2025	ND	2.23	112	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	7.03	117	6.00	12.3	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	196	97.8	200	5.62	
DRO >C10-C28*	427	10.0	03/04/2025	ND	191	95.7	200	6.13	
EXT DRO >C28-C36	167	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	88.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	99.8	% 40.6-15	3						

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E1558571 Shalyn Rodriguez

Project Location: XTO 32.2258606, -103.8471069

Sample ID: FS 29 4' (H251276-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	1.91	95.6	2.00	11.2	
Toluene*	<0.050	0.050	03/04/2025	ND	2.23	112	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	7.03	117	6.00	12.3	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	196	97.8	200	5.62	
DRO >C10-C28*	228	10.0	03/04/2025	ND	191	95.7	200	6.13	
EXT DRO >C28-C36	87.4	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	88.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	94.4	% 40.6-15	3						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.2258606, -103.8471069

ma/ka

Sample ID: FS 30 6' (H251276-04)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	1.91	95.6	2.00	11.2	
Toluene*	<0.050	0.050	03/04/2025	ND	2.23	112	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	7.03	117	6.00	12.3	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	196	97.8	200	5.62	
DRO >C10-C28*	234	10.0	03/04/2025	ND	191	95.7	200	6.13	
EXT DRO >C28-C36	93.6	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	87.8	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	97.1	% 40.6-15	3						

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Celeg D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E1558571 Shalyn Rodriguez

Project Location: XTO 32.2258606, -103.8471069

Sample ID: FS 31 6' (H251276-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	1.91	95.6	2.00	11.2	
Toluene*	<0.050	0.050	03/04/2025	ND	2.23	112	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	7.03	117	6.00	12.3	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	196	97.8	200	5.62	
DRO >C10-C28*	25.3	10.0	03/04/2025	ND	191	95.7	200	6.13	
EXT DRO >C28-C36	<10.0	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	90.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	92.7	% 40.6-15	3						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E1558571 Shalyn Rodriguez

Project Location: XTO 32.2258606, -103.8471069

Sample ID: FS 32 4' (H251276-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	1.91	95.6	2.00	11.2	
Toluene*	<0.050	0.050	03/04/2025	ND	2.23	112	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	7.03	117	6.00	12.3	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	196	97.8	200	5.62	
DRO >C10-C28*	256	10.0	03/04/2025	ND	191	95.7	200	6.13	
EXT DRO >C28-C36	77.2	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	89.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.8	% 40.6-15	3						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E1558571 Shalyn Rodriguez

Project Location: XTO 32.2258606, -103.8471069

Sample ID: FS 33 4' (H251276-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	1.91	95.6	2.00	11.2	
Toluene*	<0.050	0.050	03/04/2025	ND	2.23	112	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.29	114	2.00	12.2	GC-NC
Total Xylenes*	<0.150	0.150	03/04/2025	ND	7.03	117	6.00	12.3	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.5	10.0	03/04/2025	ND	196	97.8	200	5.62	
DRO >C10-C28*	2860	10.0	03/04/2025	ND	191	95.7	200	6.13	
EXT DRO >C28-C36	633	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	91.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	148 9	% 40.6-15	3						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.2258606, -103.8471069

Sample ID: FS 34 4' (H251276-08)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	1.91	95.6	2.00	11.2	
Toluene*	<0.050	0.050	03/04/2025	ND	2.23	112	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	7.03	117	6.00	12.3	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	196	97.8	200	5.62	
DRO >C10-C28*	160	10.0	03/04/2025	ND	191	95.7	200	6.13	
EXT DRO >C28-C36	56.7	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	91.7	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	96.2	% 40.6-15	3						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact Project Number: 03E1558571 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.2258606, -103.8471069

Sample ID: FS 35 6' (H251276-09)

BTEX 8021B	mg,	/kg	Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	1.91	95.6	2.00	11.2	
Toluene*	<0.050	0.050	03/04/2025	ND	2.23	112	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.29	114	2.00	12.2	GC-NC
Total Xylenes*	<0.150	0.150	03/04/2025	ND	7.03	117	6.00	12.3	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	14						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15.6	10.0	03/04/2025	ND	196	97.8	200	5.62	
DRO >C10-C28*	1310	10.0	03/04/2025	ND	191	95.7	200	6.13	
EXT DRO >C28-C36	282	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	97.5	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	117 9	% 40.6-15	:3						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: XTO 32.2258606, -103.8471069

ma/ka

Sample ID: FS 36 6' (H251276-10)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	2.04	102	2.00	4.35	
Toluene*	<0.050	0.050	03/04/2025	ND	2.11	106	2.00	3.86	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.05	103	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.02	100	6.00	3.25	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	196	97.8	200	5.62	
DRO >C10-C28*	257	10.0	03/04/2025	ND	191	95.7	200	6.13	
EXT DRO >C28-C36	71.1	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	84.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.3	% 40.6-15	3						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E1558571 Shalyn Rodriguez

Project Location: XTO 32.2258606, -103.8471069

Sample ID: SW 19 0-6' (H251276-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	2.04	102	2.00	4.35	
Toluene*	<0.050	0.050	03/04/2025	ND	2.11	106	2.00	3.86	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.05	103	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.02	100	6.00	3.25	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	196	97.8	200	5.62	
DRO >C10-C28*	1050	10.0	03/04/2025	ND	191	95.7	200	6.13	
EXT DRO >C28-C36	297	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	87.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	101 9	% 40.6-15	3						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.2258606, -103.8471069

Sample ID: SW 20 0-4' (H251276-12)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	2.04	102	2.00	4.35	
Toluene*	<0.050	0.050	03/04/2025	ND	2.11	106	2.00	3.86	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.05	103	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.02	100	6.00	3.25	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	196	97.8	200	5.62	
DRO >C10-C28*	215	10.0	03/04/2025	ND	191	95.7	200	6.13	
EXT DRO >C28-C36	70.4	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	86.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.2	% 40.6-15	3						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: 03E1558571

Project Location: XTO 32.2258606, -103.8471069

Sample ID: SW 21 0-6' (H251276-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	2.04	102	2.00	4.35	
Toluene*	<0.050	0.050	03/04/2025	ND	2.11	106	2.00	3.86	
Ethylbenzene*	< 0.050	0.050	03/04/2025	ND	2.05	103	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.02	100	6.00	3.25	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	196	97.8	200	5.62	
DRO >C10-C28*	427	10.0	03/04/2025	ND	191	95.7	200	6.13	
EXT DRO >C28-C36	91.0	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	88.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.6	% 40.6-15	3						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.2258606, -103.8471069

Sample ID: SW 22 0-4' (H251276-14)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	2.04	102	2.00	4.35	
Toluene*	<0.050	0.050	03/04/2025	ND	2.11	106	2.00	3.86	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.05	103	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.02	100	6.00	3.25	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	196	97.8	200	5.62	
DRO >C10-C28*	953	10.0	03/04/2025	ND	191	95.7	200	6.13	
EXT DRO >C28-C36	348	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	90.3	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	98.1	% 40.6-15	3						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact Project Number: 03E1558571 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.2258606, -103.8471069

Sample ID: SW 23 0-6' (H251276-15)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	2.04	102	2.00	4.35	
Toluene*	<0.050	0.050	03/04/2025	ND	2.11	106	2.00	3.86	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.05	103	2.00	3.07	GC-NC
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.02	100	6.00	3.25	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.3	10.0	03/04/2025	ND	214	107	200	4.48	
DRO >C10-C28*	1910	10.0	03/04/2025	ND	195	97.4	200	4.69	QM-07
EXT DRO >C28-C36	713	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	90.5	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	94.4	% 40.6-15	3						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: 03E1558571

Project Location: XTO 32.2258606, -103.8471069

Sample ID: SW 24 0-6' (H251276-16)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	2.04	102	2.00	4.35	
Toluene*	<0.050	0.050	03/04/2025	ND	2.11	106	2.00	3.86	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.05	103	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.02	100	6.00	3.25	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	214	107	200	4.48	
DRO >C10-C28*	684	10.0	03/04/2025	ND	195	97.4	200	4.69	
EXT DRO >C28-C36	271	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	85.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	74.1	% 40.6-15	3						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.2258606, -103.8471069

Sample ID: SW 25 0-6' (H251276-17)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	2.04	102	2.00	4.35	
Toluene*	<0.050	0.050	03/04/2025	ND	2.11	106	2.00	3.86	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.05	103	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.02	100	6.00	3.25	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	214	107	200	4.48	
DRO >C10-C28*	14.9	10.0	03/04/2025	ND	195	97.4	200	4.69	
EXT DRO >C28-C36	19.6	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	83.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	80.7	% 40.6-15	3						

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Celeg D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: 03E1558571

Project Location: XTO 32.2258606, -103.8471069

Sample ID: SW 26 0-6' (H251276-18)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	2.04	102	2.00	4.35	
Toluene*	<0.050	0.050	03/04/2025	ND	2.11	106	2.00	3.86	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.05	103	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.02	100	6.00	3.25	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	214	107	200	4.48	
DRO >C10-C28*	16.8	10.0	03/04/2025	ND	195	97.4	200	4.69	
EXT DRO >C28-C36	10.1	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	79.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.8	% 40.6-15	3						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/04/2025 Sampling Date: 03/03/2025

Reported: 03/05/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.2258606, -103.8471069

Sample ID: SW 27 0-6' (H251276-19)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2025	ND	2.04	102	2.00	4.35	
Toluene*	<0.050	0.050	03/04/2025	ND	2.11	106	2.00	3.86	
Ethylbenzene*	<0.050	0.050	03/04/2025	ND	2.05	103	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/04/2025	ND	6.02	100	6.00	3.25	
Total BTEX	<0.300	0.300	03/04/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/05/2025	ND	480	120	400	18.2	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2025	ND	214	107	200	4.48	
DRO >C10-C28*	505	10.0	03/04/2025	ND	195	97.4	200	4.69	
EXT DRO >C28-C36	169	10.0	03/04/2025	ND					
Surrogate: 1-Chlorooctane	92.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.0	% 40.6-15	3						

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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7/29/2025 2:47:50 PM

Received by OCD:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Nam	Ensolum, LLC				_				BILL TO								Δ	ANALYSIS REQUEST							
Project Manag	er: Aimee Cole								P.	0.#					T			Ť	1	1010	- NEC	ZOL			_
Address: 3122	National Parks H	wy							Co	omp	anv:)	XT(O Ene	rgy Inc.	1										
city: Carlsb	ad	State: NM	Z	p: 8	82	20			-	_	my	-	-	91	1			- 1							
Phone #: 720	0-384-7365	Fax #:						•			-	-	eene St		1	1 1	- 1		- 1						
Project #: 03	E1558571	Project Owne	r)	TO	6					Address: 3104 E. Greene St.				+									- 1		
	PLU CVX JV BS 0									City: Carlsbad State: NM Zip: 88220					1		1 1							- 1	
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Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)ON	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE:	ICE / COOL OTHER:		DATE	TIME	BTEX	ТРН	CHLORIDE								
/	FS27	6	10			1	/	I			/	03	-(3-2)	0136	J	1	./					\neg	\rightarrow	\rightarrow	\rightarrow
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Relinquished By:	03-04-25 Time: 140S	Received By: Spood Righter	Verbal Result: ☐ Yes ☒ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address: TMorrissey@ensolum.com, Acole@ensolum.com, AVojdani@ensolum.com
Relinquished By:	Date:	Received By:	REMARKS: API 30.016-97147 AFE PR-9604 08097 EXP 01 Incident #:NAB1825934302
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Temp. *C	Sample Condition CHECKED Cool Intact OG Pres Pres No No	Diamonia Condition

Released to Imaging: 8/18/2025 2:58:10 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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Project Manag	ger: Aimee Cole							ILL TO	0				ANA	AL VSIS	REQUEST	-	_
Address: 312	2 National Parks H	wv				P.O. 1	_				T	T	1	1	REQUES		_
City: Carlst	bad	State: NM							ergy Inc.								
Phone #: 72	0-384-7365		Zip:	88220	_	Attn: Amy Ruth											
Project #: 03		rax #:							Greene S	t.							
	PLU CVX JV BS 0	Project Owner: XTO					arisb	ad		T							N
Project Locatio	on: 32.2258606, -10	3 8471060	71069				NM	Zip: 882	220	1	1				11		
Sampler Name	: Azad Vojdani	0.047 1003			- 1	Phone	#:			1	1						
FOR LAB LISE CNLY		T		1 1111		ax #:				1							
	1		₽.	MAT	RIX	PRE	SERV.	SAN	IPLING	7							-1
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OI	GROUNDWATER WASTEWATER SOIL	SLUDGE	ACID/BASE	OTHER:	DATE	TIME	BTEX	ТРН	CHLORIDE					
12	SWLO	0-4	7	113	-	1	4	8-03-25	0938	1	1	1				_	+
13	Sweat	0-6		V	++	V			0950	V	1	1					+
14	SWZZ	0-4		H.	++	1		-	1001	1	1	1					+
	SNZ3	0-6	111	1		1 Y			1016	1	1	V					+
	50124	0-6	111	1/		1 V			1042	V	1	1					+
10	SMSZ	0-6	1	1		1	1		1046	V,	Y	1					1
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41	Sw27	0-6	4)			1		4	1053	ν,	1	1					

Relinquished By:	onsequential damages, including without limitation, sustiness interruptions, loss of use, or loss of profits incurred by Cardinal without limitation, so the control of the control limitation of the co	I by client, is subsidiaries. Verbal Result: Yes #5-No Add'l Phone #: All Results are emailed. Please provide Email address:
Delivered By: (Circle One)	Date: Received By:	TMorrissey@ensolum.com, Acole@ensolum.com, AVojdani@ensolum.com REMARKS: API 30-615-8744Z AFE: PA 2024 (8097, EXP.81 incident # Nab1625934302
Sampler - UPS - Bus - Other:	Cool Intact Slowing Checked By:	Thermometer ID 13 Harmometer ID 15 Harmo



March 19, 2025

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU CVX JV BS 02H

Enclosed are the results of analyses for samples received by the laboratory on 03/13/25 13:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 27 8'	H251496-01	Soil	12-Mar-25 10:37	13-Mar-25 13:05
FS 28 8'	H251496-02	Soil	12-Mar-25 10:38	13-Mar-25 13:05
FS 29 8'	H251496-03	Soil	12-Mar-25 10:39	13-Mar-25 13:05
FS 30 8'	H251496-04	Soil	12-Mar-25 10:41	13-Mar-25 13:05
FS 31 8'	H251496-05	Soil	12-Mar-25 10:43	13-Mar-25 13:05
FS 32 8'	H251496-06	Soil	12-Mar-25 10:44	13-Mar-25 13:05
FS 33 8'	H251496-07	Soil	12-Mar-25 10:47	13-Mar-25 13:05
FS 34 8'	H251496-08	Soil	12-Mar-25 10:48	13-Mar-25 13:05
FS 35 8'	H251496-09	Soil	12-Mar-25 10:50	13-Mar-25 13:05
FS 36 8'	H251496-10	Soil	12-Mar-25 10:51	13-Mar-25 13:05
FS 37 8'	H251496-11	Soil	12-Mar-25 12:21	13-Mar-25 13:05
FS 38 8'	H251496-12	Soil	12-Mar-25 12:37	13-Mar-25 13:05
FS 39 8'	H251496-13	Soil	12-Mar-25 12:39	13-Mar-25 13:05
FS 40 8'	H251496-14	Soil	12-Mar-25 12:40	13-Mar-25 13:05
FS 41 8'	H251496-15	Soil	12-Mar-25 12:42	13-Mar-25 13:05
FS 42 8'	H251496-16	Soil	12-Mar-25 12:42	13-Mar-25 13:05
SW 19 0-8'	H251496-17	Soil	12-Mar-25 12:12	13-Mar-25 13:05
SW 20 0-8'	H251496-18	Soil	12-Mar-25 12:14	13-Mar-25 13:05
SW 21 0-8'	H251496-19	Soil	12-Mar-25 12:16	13-Mar-25 13:05
SW 22 0-8'	H251496-20	Soil	12-Mar-25 12:18	13-Mar-25 13:05
SW 23 0-8'	H251496-21	Soil	12-Mar-25 00:00	13-Mar-25 13:05
SW 24 0-8'	H251496-22	Soil	12-Mar-25 00:00	13-Mar-25 13:05
SW 25 0-8'	H251496-23	Soil	12-Mar-25 00:00	13-Mar-25 13:05
SW 26 0-8'	H251496-24	Soil	12-Mar-25 00:00	13-Mar-25 13:05
SW 27 0-8'	H251496-25	Soil	12-Mar-25 00:00	13-Mar-25 13:05
SW 28 0-8'	H251496-26	Soil	12-Mar-25 00:00	13-Mar-25 13:05
FS 43 15'	H251496-27	Soil	12-Mar-25 00:00	13-Mar-25 13:05

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220		Project: Project Number: Project Manager: Fax To:		Reported: 19-Mar-25 08:33
FS 44 15'	H251496-28	Soil	12-Mar-25 00:00	13-Mar-25 13:05
FS 45 15'	H251496-29	Soil	12-Mar-25 00:00	13-Mar-25 13:05
FS 46 15'	H251496-30	Soil	12-Mar-25 00:00	13-Mar-25 13:05
FS 47 15'	H251496-31	Soil	12-Mar-25 13:25	13-Mar-25 13:05

03/19/25 - Client changed the sample IDs on -17 thru -26 (see COC). This is the revised report and will replace the one sent on 03/14/25.

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 27 8' H251496-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
	Cardinal Laboratories													
Inorganic Compounds														
Chloride	32.0		16.0	mg/kg	4	5031422	KV	14-Mar-25	4500-Cl-B					
Volatile Organic Compounds by	EPA Method	8021												
Benzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B					
Toluene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B					
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B					
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031333	JH	13-Mar-25	8021B					
Total BTEX	< 0.300		0.300	mg/kg	50	5031333	JH	13-Mar-25	8021B					
Surrogate: 4-Bromofluorobenzene (PID)			92.0 %	71.5	-134	5031333	JH	13-Mar-25	8021B					
Petroleum Hydrocarbons by GC	FID													
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B					
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B					
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B					
Surrogate: 1-Chlorooctane			97.3 %	44.4	-145	5031329	MS	13-Mar-25	8015B					
Surrogate: 1-Chlorooctadecane			103 %	40.6	-153	5031329	MS	13-Mar-25	8015B					

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 28 8' H251496-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
			Cardina	l Laborat	ories								
norganic Compounds													
Chloride	32.0		16.0	mg/kg	4	5031422	KV	14-Mar-25	4500-Cl-B				
Volatile Organic Compounds by	EPA Method	8021											
Benzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B				
Toluene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B				
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B				
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031333	JH	13-Mar-25	8021B				
Total BTEX	< 0.300		0.300	mg/kg	50	5031333	JH	13-Mar-25	8021B				
Surrogate: 4-Bromofluorobenzene (PID)			91.6 %	71.5	-134	5031333	ЈН	13-Mar-25	8021B				
Petroleum Hydrocarbons by GC	FID												
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B				
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B				
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B				
Surrogate: 1-Chlorooctane			97.9 %	44.4	-145	5031329	MS	13-Mar-25	8015B				
Surrogate: 1-Chlorooctadecane			98.0 %	40.6	-153	5031329	MS	13-Mar-25	8015B				

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 29 8' H251496-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031422	KV	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			91.1 %	71.5	-134	5031333	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			103 %	44.4	-145	5031329	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			106 %	40.6	-153	5031329	MS	13-Mar-25	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 30 8' H251496-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031422	KV	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			93.1 %	71.5	-134	5031333	JH	13-Mar-25	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			99.8 %	44.4	-145	5031329	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			102 %	40.6	-153	5031329	MS	13-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 31 8' H251496-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	5031422	KV	14-Mar-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031333	ЈН	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pi	TD)		93.1 %	71.5	-134	5031333	JH	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			101 %	44.4	-145	5031329	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			104 %	40.6	-153	5031329	MS	13-Mar-25	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 32 8' H251496-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031422	KV	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			93.4 %	71.5	-134	5031333	JH	13-Mar-25	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031329	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			101 %	44.4	-145	5031329	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			102 %	40.6	-153	5031329	MS	13-Mar-25	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 33 8' H251496-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	416		16.0	mg/kg	4	5031422	KV	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031333	JН	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		90.9 %	71.5	-134	5031333	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031329	MS	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031329	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031329	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			105 %	44.4	-145	5031329	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			108 %	40.6	-153	5031329	MS	14-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 34 8' H251496-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	336		16.0	mg/kg	4	5031422	KV	14-Mar-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		93.2 %	71.5	-134	5031333	JH	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031329	MS	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031329	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031329	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			101 %	44.4	-145	5031329	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			104 %	40.6	-153	5031329	MS	14-Mar-25	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 35 8' H251496-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	5031422	KV	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031333	ЈН	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031333	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031333	JН	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		92.1 %	71.5	-134	5031333	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031329	MS	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031329	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031329	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			101 %	44.4	-145	5031329	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			104 %	40.6	-153	5031329	MS	14-Mar-25	8015B	

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Celeg D. Keens

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 36 8' H251496-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	5031422	KV	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	QM-07
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	QM-07
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JН	13-Mar-25	8021B	QM-07
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	QM-07
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5	-134	5031334	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			97.1 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			92.2 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celey D. Krene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 37 8' H251496-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031422	KV	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI.	D)		115 %	71.5	-134	5031334	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	754		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	171		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			87.6 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			101 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 38 8' H251496-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031422	KV	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JН	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JН	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		113 %	71.5	-134	5031334	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	842		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	203		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			91.6 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			112 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celeg D. Keene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 39 8' H251496-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		109 %	71.5	-134	5031334	JH	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	14.4		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			96.7 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			91.4 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 40 8' H251496-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	ЈН	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		107 %	71.5	i-134	5031334	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			97.0 %	44.4	!-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			91.2 %	40.6	5-153	5031331	MS	13-Mar-25	8015B	

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Celey D. Kreene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 41 8' H251496-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		107 %	71.5	-134	5031334	JH	13-Mar-25	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			96.6 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			91.1 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celeg D. Keine



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 42 8' H251496-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5	-134	5031334	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			101 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			94.8 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celey D. Kreene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

SW 19 0-8' H251496-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	ЈН	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JН	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	TD)		105 %	71.5	-134	5031334	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			97.5 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			91.0 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celey D. Keene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

SW 20 0-8' H251496-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	896		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	ЈН	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI.	D)		108 %	71.5	-134	5031334	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			97.2 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			92.2 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celey D. Keens

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

SW 21 0-8' H251496-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	336		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JН	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5	i-134	5031334	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	10.5		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			97.4 %	44.4	!-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			89.7 %	40.6	5-153	5031331	MS	13-Mar-25	8015B	

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Celeg D. Keine



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

SW 22 0-8' H251496-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JН	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		106 %	71.5	-134	5031334	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			95.3 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			90.2 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celey D. Kreene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

SW 23 0-8' H251496-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		107 %	71.5	-134	5031334	JH	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	11.2		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			82.6 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			78.7 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

SW 24 0-8' H251496-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds l	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		106 %	71.5	-134	5031334	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	10.7		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			83.7 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			77.8 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

SW 25 0-8' H251496-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JН	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5	i-134	5031334	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			93.9 %	44.4	!-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			89.0 %	40.6	5-153	5031331	MS	13-Mar-25	8015B	

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Celey D. Keine



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

SW 26 0-8' H251496-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JН	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		106 %	71.5	-134	5031334	JH	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			91.9 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			85.9 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celey D. Kreene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

SW 27 0-8' H251496-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	ID)		107 %	71.5	-134	5031334	JH	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	25.2		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			97.6 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			93.7 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celey D. Krene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

SW 28 0-8' H251496-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031334	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		106 %	71.5	-134	5031334	JH	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			89.1 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			80.3 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celeg D. Keens

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 43 15' H251496-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031335	JН	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		5031335	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			93.5 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			87.1 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 44 15' H251496-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		108 %	71.5	-134	5031335	JH	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	23.2		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			93.2 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			87.6 %	40.6	-153	5031331	MS	13-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 45 15' H251496-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		105 %	71.5	-134	5031335	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
DRO >C10-C28*	27.1		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			92.5 %	44.4	-145	5031331	MS	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			88.5 %	40.6	1-153	5031331	MS	13-Mar-25	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 46 15' H251496-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5	-134	5031335	JH	13-Mar-25	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031332	ms	13-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031332	ms	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031332	ms	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			96.8 %	44.4	-145	5031332	ms	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			94.3 %	40.6	-153	5031332	ms	13-Mar-25	8015B	

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Celey D. Kreene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

FS 47 15' H251496-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	5031425	CT	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031335	JН	13-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031335	JН	13-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031335	ЈН	13-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031335	JH	13-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		107 %	71.5	5-134	5031335	ЈН	13-Mar-25	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031332	ms	13-Mar-25	8015B	
DRO >C10-C28*	36.7		10.0	mg/kg	1	5031332	ms	13-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031332	ms	13-Mar-25	8015B	
Surrogate: 1-Chlorooctane			91.5 %	44.4	1-145	5031332	ms	13-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			92.3 %	40.6	5-153	5031332	ms	13-Mar-25	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

Inorganic Compounds - Quality Control

Cardinal Laboratories

	D. 1	Reporting	TT '4	Spike	Source	0/DEC	%REC	DDD	RPD	NT 4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5031422 - 1:4 DI Water										
Blank (5031422-BLK1)				Prepared &	Analyzed:	14-Mar-25				
Chloride	ND	16.0	mg/kg	·	·		·		·	
LCS (5031422-BS1)				Prepared &	Analyzed:	14-Mar-25				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (5031422-BSD1)				Prepared &	Analyzed:	14-Mar-25				
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	
Batch 5031425 - 1:4 DI Water										
Blank (5031425-BLK1)				Prepared &	Analyzed:	14-Mar-25				
Chloride	ND	16.0	mg/kg							
LCS (5031425-BS1)				Prepared &	Analyzed:	14-Mar-25				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (5031425-BSD1)				Prepared &	Analyzed:	14-Mar-25				
Chloride	448	16.0	mg/kg	400		112	80-120	7.41	20	

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Celey D. Keene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Ratch 5031333 - Volatiles										

Batch 5031333 - Volatiles									
Blank (5031333-BLK1)				Prepared & Anal	yzed: 13-Mar-25				
Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500	92.8	71.5-134			
LCS (5031333-BS1)				Prepared & Anal	yzed: 13-Mar-25				
Benzene	2.26	0.050	mg/kg	2.00	113	82.8-130			
Toluene	2.24	0.050	mg/kg	2.00	112	86-128			
Ethylbenzene	2.14	0.050	mg/kg	2.00	107	85.9-128			
m,p-Xylene	4.21	0.100	mg/kg	4.00	105	89-129			
o-Xylene	2.07	0.050	mg/kg	2.00	103	86.1-125			
Total Xylenes	6.28	0.150	mg/kg	6.00	105	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0450		mg/kg	0.0500	89.9	71.5-134			
LCS Dup (5031333-BSD1)				Prepared & Anal	yzed: 13-Mar-25				
Benzene	2.16	0.050	mg/kg	2.00	108	82.8-130	4.63	15.8	
Toluene	2.15	0.050	mg/kg	2.00	107	86-128	4.27	15.9	
Ethylbenzene	2.05	0.050	mg/kg	2.00	102	85.9-128	4.61	16	
m,p-Xylene	4.02	0.100	mg/kg	4.00	100	89-129	4.56	16.2	
o-Xylene	1.98	0.050	mg/kg	2.00	98.8	86.1-125	4.52	16.7	
Total Xylenes	6.00	0.150	mg/kg	6.00	99.9	88.2-128	4.55	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0454		mg/kg	0.0500	90.8	71.5-134			

Batch 5031334 - Volatiles

Blank (5031334-BLK1)		Prepared & Analyzed: 13-Mar-25	
Benzene	ND	0.050 mg/kg	
Toluene	ND	0.050 mg/kg	
Ethylbenzene	ND	0.050 mg/kg	
Total Xylenes	ND	0.150 mg/kg	

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Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Project: PLU CVX JV BS 02H Project Number: 03E1558571

Spike

Level

Source

Result

%REC

104

99.6

99 4

89-129

86.1-125

88.2-128

71.5-134

5.69

5.79

16.2

16.7

Project Manager: AIMEE COLE

Fax To:

Reporting

Limit

0.100

0.050

0.150

Result

4.15

1.99

6.14

0.0497

Reported: 19-Mar-25 08:33

RPD

Limit

Notes

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Units

Blank (5031334-BLK1)				Prepared & Analy	yzed: 13-Mar-2	5			
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0534		mg/kg	0.0500	107	71.5-134			
LCS (5031334-BS1)				Prepared & Analy	yzed: 13-Mar-2	5			
Benzene	2.17	0.050	mg/kg	2.00	108	82.8-130			
Toluene	2.17	0.050	mg/kg	2.00	108	86-128			
Ethylbenzene	2.15	0.050	mg/kg	2.00	107	85.9-128			
m,p-Xylene	4.39	0.100	mg/kg	4.00	110	89-129			
o-Xylene	2.11	0.050	mg/kg	2.00	106	86.1-125			
Total Xylenes	6.50	0.150	mg/kg	6.00	108	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500	98.2	71.5-134			
LCS Dup (5031334-BSD1)				Prepared: 13-Mar	r-25 Analyzed:	14-Mar-25			
Benzene	1.97	0.050	mg/kg	2.00	98.4	82.8-130	9.55	15.8	
Toluene	2.05	0.050	mg/kg	2.00	102	86-128	5.87	15.9	
Ethylbenzene	2.03	0.050	mg/kg	2.00	101	85.9-128	5.85	16	

Batch 5031335 - Volatiles

Surrogate: 4-Bromofluorobenzene (PID)

m,p-Xylene

Total Xylenes

o-Xylene

Blank (5031335-BLK1)				Prepared & Analyzed	d: 13-Mar-2:	5	
Benzene	ND	0.050	mg/kg				
Toluene	ND	0.050	mg/kg				
Ethylbenzene	ND	0.050	mg/kg				
Total Xylenes	ND	0.150	mg/kg				
Total BTEX	ND	0.300	mg/kg				
Surrogate: 4-Bromofluorobenzene (PID)	0.0539		mg/kg	0.0500	108	71.5-134	

mg/kg

mg/kg

mg/kg

mg/kg

4.00

2.00

6.00

0.0500

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Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Spike

Source

Project Manager: AIMEE COLE

Fax To:

Reporting

Reported: 19-Mar-25 08:33

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		resporting		opme	Domes		, or the		1112	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5031335 - Volatiles										
LCS (5031335-BS1)				Prepared &	Analyzed:	13-Mar-25	5			
Benzene	2.05	0.050	mg/kg	2.00		102	82.8-130			
Toluene	2.26	0.050	mg/kg	2.00		113	86-128			
Ethylbenzene	2.25	0.050	mg/kg	2.00		113	85.9-128			
m,p-Xylene	4.66	0.100	mg/kg	4.00		117	89-129			
o-Xylene	2.23	0.050	mg/kg	2.00		111	86.1-125			
Total Xylenes	6.89	0.150	mg/kg	6.00		115	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0497		mg/kg	0.0500		99.3	71.5-134			
LCS Dup (5031335-BSD1)				Prepared &	Analyzed:	13-Mar-25	5			
Benzene	2.12	0.050	mg/kg	2.00		106	82.8-130	3.34	15.8	
Toluene	2.34	0.050	mg/kg	2.00		117	86-128	3.16	15.9	
Ethylbenzene	2.35	0.050	mg/kg	2.00		118	85.9-128	4.26	16	
m,p-Xylene	4.88	0.100	mg/kg	4.00		122	89-129	4.51	16.2	
o-Xylene	2.34	0.050	mg/kg	2.00		117	86.1-125	4.83	16.7	
Total Xylenes	7.21	0.150	mg/kg	6.00		120	88.2-128	4.61	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/kg	0.0500		99.3	71.5-134			

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Celey D. Keene



%REC

Limits

RPD

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Spike

Level

50.0

Source

Result

%REC

93.8

40.6-153

Fax To:

Reported: 19-Mar-25 08:33

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

Blank (5031329-BLK1)				Prepared & Ana	lyzed: 13-Mar-25	5
GRO C6-C10	ND	10.0	mg/kg			
DRO >C10-C28	ND	10.0	mg/kg			
EXT DRO >C28-C36	ND	10.0	mg/kg			
Surrogate: 1-Chlorooctane	45.8		mg/kg	50.0	91.6	44.4-145
Surrogate: 1-Chlorooctadecane	46.1		mg/kg	50.0	92.2	40.6-153
LCS (5031329-BS1)				Prepared & Ana	ılyzed: 13-Mar-25	5
GRO C6-C10	213	10.0	mg/kg	200	107	81.5-123
DRO >C10-C28	193	10.0	mg/kg	200	96.6	77.7-122
Total TPH C6-C28	406	10.0	mg/kg	400	102	80.9-121
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0	91.8	44.4-145

mg/kg

LCS Dup (5031329-BSD1)				Prepared & Ar	nalyzed: 13-Mar-25
GRO C6-C10	220	10.0	mg/kg	200	110

46.9

GRO C6-C10	220	10.0	mg/kg	200	110	81.5-123	2.96	13
DRO >C10-C28	195	10.0	mg/kg	200	97.7	77.7-122	1.12	15.6
Total TPH C6-C28	415	10.0	mg/kg	400	104	80.9-121	2.09	18.5
Surrogate: 1-Chlorooctane	52.1		mg/kg	50.0	104	44.4-145		
Surrogate: 1-Chlorooctadecane	50.6		mg/kg	50.0	101	40.6-153		

Batch 5031331 - General Prep - Organics

Surrogate: 1-Chlorooctadecane

Blank (5031331-BLK1)				Prepared & Analyz	zed: 13-Mar-25	
GRO C6-C10	ND	10.0	mg/kg			
DRO >C10-C28	ND	10.0	mg/kg			
EXT DRO >C28-C36	ND	10.0	mg/kg			
Surrogate: 1-Chlorooctane	43.7		mg/kg	50.0	87.4	44.4-145
Surrogate: 1-Chlorooctadecane	39.6		mg/kg	50.0	79.3	40.6-153

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Celey D. Keine



%REC

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Spike

Source

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

RPD

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

		Reporting		Spike	Source		/OKEC		KrD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5031331 - General Prep - Organ	ics	·							·	
LCS (5031331-BS1)				Prepared &	k Analyzed:	13-Mar-25	5			
GRO C6-C10	196	10.0	mg/kg	200		98.1	81.5-123			
DRO >C10-C28	197	10.0	mg/kg	200		98.3	77.7-122			
Total TPH C6-C28	393	10.0	mg/kg	400		98.2	80.9-121			
Surrogate: 1-Chlorooctane	44.9		mg/kg	50.0		89.7	44.4-145			
Surrogate: 1-Chlorooctadecane	42.6		mg/kg	50.0		85.2	40.6-153			
LCS Dup (5031331-BSD1)				Prepared &	& Analyzed:	13-Mar-25	5			
GRO C6-C10	204	10.0	mg/kg	200		102	81.5-123	3.83	13	
DRO >C10-C28	204	10.0	mg/kg	200		102	77.7-122	3.68	15.6	
Total TPH C6-C28	408	10.0	mg/kg	400		102	80.9-121	3.75	18.5	
Surrogate: 1-Chlorooctane	48.9		mg/kg	50.0		97.8	44.4-145			
Surrogate: 1-Chlorooctadecane	45.3		mg/kg	50.0		90.6	40.6-153			
Batch 5031332 - General Prep - Organ	ics									
Blank (5031332-BLK1)				Prepared &	k Analyzed:	13-Mar-25	5			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	42.5		mg/kg	50.0		85.1	44.4-145			
Surrogate: 1-Chlorooctadecane	40.2		mg/kg	50.0		80.3	40.6-153			
LCS (5031332-BS1)				Prepared &	k Analyzed:	13-Mar-25	5			
GRO C6-C10	205	10.0	mg/kg	200		102	81.5-123			
DRO >C10-C28	194	10.0	mg/kg	200		97.1	77.7-122			
Total TPH C6-C28	399	10.0	mg/kg	400		99.8	80.9-121			
Surrogate: 1-Chlorooctane	44.1		mg/kg	50.0		88.2	44.4-145			
Surrogate: 1-Chlorooctadecane	42.7		mg/kg	50.0		85.4	40.6-153			

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Celey D. Keine



%REC

Limits

RPD

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Project: PLU CVX JV BS 02H Project Number: 03E1558571

Spike

Level

Source

Result

%REC

Project Manager: AIMEE COLE

Fax To:

Reported: 19-Mar-25 08:33

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

Batch 5031332 - General Prep - Organics	8								
LCS Dup (5031332-BSD1)				Prepared & Ana	lyzed: 13-Mar-2:	5			
GRO C6-C10	213	10.0	mg/kg	200	106	81.5-123	3.81	13	
DRO >C10-C28	206	10.0	mg/kg	200	103	77.7-122	5.87	15.6	
Total TPH C6-C28	419	10.0	mg/kg	400	105	80.9-121	4.82	18.5	
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0	96.2	44.4-145			
Surrogate: 1-Chlorooctadecane	46.0		mg/kg	50.0	92.0	40.6-153			

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Celey D. Keine



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 42 of 46

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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

CARDINAL Laboratories

Company Name:	(575) 393-2326 FA			T	T						E	3/L	L TO						ANA	LYS	IS R	REQU	EST		_	
Project Manager:	Litabibiti, Luo								P.	0. #																
	National Parks Hw	y							Co	omp	any:	XT	O Energ	y Inc.												
City: Carlsbac			Zip:	88	22	0			At	tn: A	Amy	R	uth											- 1		
Phone #: 720-		Fax #:	-						Ac	idre	ss:3	310	4 E. Gre	ene St.												
Project #: 03E		Project Owner:	XT	ro					-	_	Carl															- 1
	LU CVX JV BS 02		74,										Zip: 8822	0										-1		- 1
Project Name:	32.2258606, -10	3 8471069								none		-			1											
		3.0171000							1	x #:					1					1				- 1		
Sampler Name:	Azau vojuarii					N	ATF	XIX	1		ESE	RV.	SAME	LING	1					1						
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	втех	ТРН	CHLORIDE									
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4	F530		Ш	1			1	1	+	1	1			1041	1	1 4	1		+	+	+	+	+	-		
5	F531		1	1	L		1	-	+	+	1	Н	-	1043	1	V,	17		-	+	+	+	-		-	
6	F532		Ш	1			1	+	+	+	1	Н	\vdash	1644	1	Y	1	-	-	+	+	\pm	\pm			
7	FS33		1	1	-		1	+	+	1	7	H		1042	14	17	1	-	1	+		+	_		1	
8	F534		1	1	-		4	+	+	+	4		-	_	1/	1	1		+	+	+					
9	F535		1	1	-		4	+	+	+	1			1050	14	1	14.					1				
10	F534		IV	1 1			4.1	- 1					V	100	1 1/	1 V	1	_	_	_	_			-	_	-

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Relinquished By:	Date: 3.13.25 Time: 305	Received By:	Verbal Result: Yes & No Add'l Phone #: All Results are emailed. Please provide Email address: TMorrissey@ensolum.com, Acole@ensolum.com, AVojdani@ensolum.com
Relinquished By:	Date:	Received By:	REMARKS: API:30-015-37147 AFE: PA.2024.08097.EXP.01
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Tamp. *C	Coor street	Turnaround Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. *C Thermometer ID #443 Correction Feature 25°C No No Corrected Temp. *C

Page 44 of 46

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	Ensolum, LLC									B	IL	L TO					AN	IALY:	SIS	REQ	UES	T		
Project Manager								P.0	O. #.	Ş														
Address: 3122 N	National Parks Hw	у						Co	mpa	any:	XT	O Energ	gy Inc.											
City: Carlsba			Zip:	88	3220)		Att	n: A	Amy	Ru	ith												- 1
Phone #: 720-		Fax #:		and project				Ad	dre	ss: 3	104	4 E. Gre	ene St.			1 1		- 1		- 1				- 1
Project #: 03E		Project Owner	: XT	0				Cit	y: C	Carls	ba	d												- 1
the state of the s	LU CVX JV BS 02							Sta	ate:	NM	1 2	zip: 8822	20							- 1				- 1
Project Location	32.2258606, -103	3.8471069							one															
Sampler Name:								Fa	x #:							1 1				- 1				
FOR LAB USE ONLY		T	П			MAT	RIX		PR	ESER	V.	SAMP	PLING	1										
Lab I.D. <i>H25 1494</i>	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	втех	ТРН	CHLORIDE								
11	fs37	8'	C	1		1				1	4	8-12-25	(221	1		1								
12	F538	1	i	1		1				1	1	1	1237	V	1	V			_	_	_	_	_	
13	F539			1		V				1	1		1239	1	1	V		_	_	-	_	-		
14	F540			1		V				V	1		1240	1	V,	V		-	-	-	-	_	-	
15	FS41			1		1				1	1		1242	V	4	V		-	-	-	-	-	+	
16	CYL .	A		1		V				1	1		1242	1	1	V.		+	-	-	\rightarrow	-	-	
17	SW08 19*	6-8		1		V	Ш			V	1	1	1212	1	1	1	-	-	-	-	-	-	-	
18	5WX 20		Ш	1	Ш	1		1	1	V	4		1214	V	1	1	-	+	-	-	-	-	-	-
19	5 WK 21			1		1	Н	+	┡	V,	4	-	1216	V	1	1	-	-	+	-	-	-	+	_
70	5W18 22	1	W		Ш	1				1		4	1218	/	1	V		_	_		_		_	_
anahees All claims include	d Damages. Cardinal's liability and ci g those for negligence and any other crimal be liable for incidental or cons	cause whatsoever shall be:	deemed	T WO'N	ed unies	st made it	s writing a	and rece	plyed b	ky Cardin	MI WE	thin 30 days after	ic completion of E	ne approx	bie									
Relinquished By Relinquished By Delivered By: (C	g out of or related to the performance of the perfo	Date: Date: 305 Date: Time: C	Re	Second	ved I	By: By: By: By: Bool	Conc	19	~	U .	of the	ED BY:	Verbal Re All Result	s are e sey@e S: * 0-015-3	mailed nsolum 37147 e:	Stand	ard	Email colum or	om, AV	vojdani vojdani vojdani voje EXP	P.01 P.01 Samp	cha To	-3/1	
Committee 1100	Bus - Other: C	errected Tamp. *C	0	4	4	Yes	H	es		1	K		Correction	ter ID	B112	# 10	-	la la	1105	No	7 55		Temp. "C	

Relinquished By:	Date: 3-25 Time: / 305	Sendriquer	Verbal Result: ☐ Yes ♠ No Add'l Phone #: All Results are emailed. Please provide Email address: TMorrissey@ensolum.com, Acole@ensolum.com, AVojdani@ensolum.com
Relinquished By:	Date:	Received By:	REMARKS: # Customer reguested ID changes. API:30-015-37147 AFE: PA 2024,08097.EXP.01 90-3/14/25
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Osservee Tamp. *C	Cool Intact (Initials)	Turnaround Time: Standard Bacterie (only) Sample Condition Cool Intact Observed Temp. "C Thermometer ID 1113 1 1 0

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

3

Company Name:	Ensolum, LLC										BII	L TO					ANA	ALYSI	S RE	QUE	ST	_	
Project Manager								F	P.O.	#:													
Address: 3122 I	National Parks Hw	У							Соп	npan	y: XT	O Energ	gy Inc.										
City: Carlsba		State:NM	Zip	: 88	3220)		1	Attn	:An	ny R	uth				ll					П		
Phone #: 720-		Fax#:		and promise				,	Add	ress	:310	4 E. Gre	ene St.								ΙI		
And the Part of th	1558571		: X	то				-	City	:Ca	risba	ad											
	LU CVX JV BS 02								Stat	e: N	M	Zip: 8822	20								ш		
Project Location	32.2258606, -10	3.8471069		Т				_		ne #													
Sampler Name:								-	Fax	#:				1					1				
FOR LAB USE ONLY		T I		Г		MA	TRE	(F	PRES	ERV.	SAME	PLING	1									
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	BTEX	ТРН	CHLORIDE							
21	Sw 18 23	0-8	C	1.		1		Н	4		4	03-12-25		V,	1	V,	-	+	+	-			-
23	SWM 24		1	1		- 1	1	Н	4	1	4	1		V	1	Y		-	+	-			\rightarrow
25	SWN 35	11	1	1	Н	- 1		H	+		4	-	-	ν.	1	Y	-	+	+				-
34	Swikede	1	H	1		- 1	-	Н	+	-	-	-		14	17	1		_	+				
25	SW N27			1		-	<u> </u>	$^{+}$	1	- 1	-			Y	1	Y							
26	5m1888	15'	Y	1	Н	V	+	H	+	+	-			1	1	15							
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PLEASE NOTE: Eachilly and Damages. Cardinal's lackilly and clean's exclusive remedy for any claim arising whether based in contract or tork, shall be limited to the preciously the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed welved unless made is writing and received by Cardinal within 30 days after course by place applicable analyses. In no event shall Cardinal the liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by claim as an applicable analyses.

Relinquished By:	Date 5-13-25 Time:	Received By: Skodkignuy	Verbal Result: Yes & No Add'l Phone #: All Results are emailed. Please provide Email address: TMorrissey@ensolum.com, Acole@ensolum.com, AVojdani@ensolum.com
Relinquished By:	Date:	Received By:	APL:30-015-37147 AFE PA 2024.08097.EXP.01 3/14/25
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Osserved Temp. *C	O. (Sample Condition CHECKED BY: Cool Intact (Initials)	Ternaround Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. "C Thermometer ID 1113 Thermometer ID 1113 Thermometer ID 1113 Thermometer ID 1113 No No Corrected Temp. "C

Released to Imaging: 8/18/2025 2:58:10 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 4

Company Name	- 110							1			BI	L	L TO						ANAL	151	KE	QUL	31		
Project Manager	bellioning the second							1	P.0	#:															
	National Parks Hw	v							Cor	npa	ny: X	TO	O Energ	y Inc.											
		State: NM	7in	88	220	3		_		_	my F														
City: Carlsba	204 7265	Fax #:	Lib	. 00	and o								4 E. Gre	ene St.											
Phone #: 720		Project Owner:	Y	ro				_	-		arlsb	_		-										ΙI	
Project#: 03E			^										ip: 8822	0							1			ΙI	
Project Name:	PLU CVX JV BS 02	9471060	-		_			_		one		_	7.5												
Project Location	32.2258606, -103	3.047 1003	-	_				_	-	c#:															
Sampler Name:	Azad Vojdani	_				MA	TRD	_	_	_	SERV	4	SAMP	LING	1							1		1 1	- 4
Lab I.D. H25/494	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL		DATE	TIME	BTEX	ТРН	CHLORIDE								
31	F547	15	C	1		1	+	H	H		1	+	03-12-25	1326	V	1	4								
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Relinquished By:	Date: 3.25 Time: 3.05	Received By:	Verbal Result: ☐ Yes Ø-No Add'l Phone #: All Results are emailed. Please provide Email address: TMorrissey@ensolum.com, Acole@ensolum.com, AVojdani@ensolum.com					
Relinquished By:	Date:	Received By:	REMARKS: API:30-015-37147 AFE: PA.2024.08097.EXP.01					
	Darrected Temp. *C	Cool Intact	Turnaround Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. "C Thermometer is Standard Rush Standard Cool Intact Observed Temp. "C Thermometer is Standard Rush Standard					

[†] Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



March 31, 2025

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU CVX JV BS 02H

Enclosed are the results of analyses for samples received by the laboratory on 03/14/25 9:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H
Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample 10	Luboratory 1D	i iau ix	Date Sampleu	Date Received
FS 48 15'	H251524-01	Soil	13-Mar-25 14:19	14-Mar-25 09:22
FS 49 15'	H251524-02	Soil	13-Mar-25 14:21	14-Mar-25 09:22
FS 50 15'	H251524-03	Soil	13-Mar-25 14:23	14-Mar-25 09:22
FS 51 15'	H251524-04	Soil	13-Mar-25 14:25	14-Mar-25 09:22
FS 52 15'	H251524-05	Soil	13-Mar-25 14:26	14-Mar-25 09:22
FS 53 15'	H251524-06	Soil	13-Mar-25 14:28	14-Mar-25 09:22
FS 54 15'	H251524-07	Soil	13-Mar-25 14:30	14-Mar-25 09:22
FS 55 15'	H251524-08	Soil	13-Mar-25 14:32	14-Mar-25 09:22
FS 56 15'	H251524-09	Soil	13-Mar-25 14:35	14-Mar-25 09:22
FS 57 15'	H251524-10	Soil	13-Mar-25 14:36	14-Mar-25 09:22
FS 58 15'	H251524-11	Soil	13-Mar-25 14:38	14-Mar-25 09:22
FS 59 15'	H251524-12	Soil	13-Mar-25 14:39	14-Mar-25 09:22
FS 60 15'	H251524-13	Soil	13-Mar-25 14:41	14-Mar-25 09:22
FS 61 15'	H251524-14	Soil	13-Mar-25 14:42	14-Mar-25 09:22
SW 29 0-15'	H251524-15	Soil	13-Mar-25 09:38	14-Mar-25 09:22
SW 30 0-15'	H251524-16	Soil	13-Mar-25 09:40	14-Mar-25 09:22
SW 31 0-15'	H251524-17	Soil	13-Mar-25 13:38	14-Mar-25 09:22
SW 32 0-15'	H251524-18	Soil	13-Mar-25 13:40	14-Mar-25 09:22
SW 33 0-15'	H251524-19	Soil	13-Mar-25 09:46	14-Mar-25 09:22
SW 34 0-15'	H251524-20	Soil	13-Mar-25 09:48	14-Mar-25 09:22
SW 35 0-15'	H251524-21	Soil	13-Mar-25 09:50	14-Mar-25 09:22
SW 36 0-15'	H251524-22	Soil	13-Mar-25 12:12	14-Mar-25 09:22
SW 37 0-15'	H251524-23	Soil	13-Mar-25 09:54	14-Mar-25 09:22
SW 38 0-15'	H251524-24	Soil	13-Mar-25 09:56	14-Mar-25 09:22
SW 39 0-15'	H251524-25	Soil	13-Mar-25 09:59	14-Mar-25 09:22
SW 40 0-15'	H251524-26	Soil	13-Mar-25 10:27	14-Mar-25 09:22
SW 41 0-15'	H251524-27	Soil	13-Mar-25 10:04	14-Mar-25 09:22

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220		Project: Project Number: Project Manager: Fax To:		Reported: 31-Mar-25 14:08
SW 42 0-15'	H251524-28	Soil	13-Mar-25 13:22	14-Mar-25 09:22
SW 43 0-15'	H251524-29	Soil	13-Mar-25 13:23	14-Mar-25 09:22
SW 44 0-15'	H251524-30	Soil	13-Mar-25 10:20	14-Mar-25 09:22
SW 45 0-15'	H251524-31	Soil	13-Mar-25 13:32	14-Mar-25 09:22
SW 46 0-15'	H251524-32	Soil	13-Mar-25 10:24	14-Mar-25 09:22

03/31/25 - Client changed the sample IDs for -15 thru -32 (see COC). This is the revised report and will replace the one sent on 03/17/25.

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Celey D. Kreene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

FS 48 15' H251524-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	5031444	НМ	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031401	JН	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031401	ЈН	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	(D)		114 %	71.5	-134	5031401	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	115		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	25.6		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			85.0 %	44.4	-145	5031358	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			83.3 %	40.6	-153	5031358	MS	14-Mar-25	8015B	

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Celey D. Keene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

FS 49 15' H251524-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	5031444	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031401	ЈН	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		112 %	71.5	-134	5031401	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	10.3		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			93.7 %	44.4	-145	5031358	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			88.5 %	40.6	-153	5031358	MS	14-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

FS 50 15' H251524-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031444	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		112 %	71.5	-134	5031401	JH	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	16.1		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			84.4 %	44.4	-145	5031358	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			78.1 %	40.6	-153	5031358	MS	14-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

FS 51 15' H251524-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031444	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		114 %	71.5	-134	5031401	JH	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	32.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			81.2 %	44.4	-145	5031358	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			76.7 %	40.6	-153	5031358	MS	14-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

FS 52 15' H251524-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031444	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		114 %	71.5	-134	5031401	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			81.7 %	44.4	-145	5031358	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			76.1 %	40.6	-153	5031358	MS	14-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

FS 53 15' H251524-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	5031444	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JН	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	ЈН	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JН	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		126 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	141		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	31.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane		·	77.1 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			77.1 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celeg D. Keene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

FS 54 15' H251524-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031444	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JН	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		127 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	227		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	65.8		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			77.8 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			78.1 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Krene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

FS 55 15' H251524-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031444	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		122 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	77.9		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	19.2		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			78.8 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			73.6 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Krene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

FS 56 15' H251524-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	5031444	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JН	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		129 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	462		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	102		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			78.2 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			87.4 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Kreene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

FS 57 15' H251524-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds by E	PA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			134 %	71.5	-134	5031413	JH	14-Mar-25	8021B	
Petroleum Hydrocarbons by GC I	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	333		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	64.3		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			83.5 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			84.7 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Krene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

FS 58 15' H251524-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JН	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	ЈН	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		122 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			86.4 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			77.6 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

FS 59 15' H251524-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labora	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	ЈН	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		129 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	37.5		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			87.8 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			81.3 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celeg D. Keene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

FS 60 15' H251524-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								S-04
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	ЈН	14-Mar-25	8021B	GC-NC
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		138 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	13.9		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	1060		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	187		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			82.4 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			96.1 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Keine



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

FS 61 15' H251524-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		129 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	10.9		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			88.3 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			80.5 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celeg D. Keene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 29 0-15' H251524-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		126 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			83.0 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			75.3 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 30 0-15' H251524-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		119 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	83.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	19.8		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			81.3 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			76.6 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Kreene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 31 0-15' H251524-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		126 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			79.2 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			72.6 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 32 0-15' H251524-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labora	tories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (P	PID)		124 %	71.5	-134	5031413	JH	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			86.6 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			78.9 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Krene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 33 0-15' H251524-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	5031443	НМ	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds h	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JН	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JН	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	1		121 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			87.1 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			78.9 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 34 0-15' H251524-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		123 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	20.2		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			79.7 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			73.0 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Kreene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 35 0-15' H251524-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI.	D)		119 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	23.1		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			86.9 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			79.1 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Krene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 36 0-15' H251524-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JН	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pi	ID)		123 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			66.1 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			64.6 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 37 0-15' H251524-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		132 %	71.5	-134	5031413	JH	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	641		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	173		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			81.6 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			90.2 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Krene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 38 0-15' H251524-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		130 %	71.5	i-134	5031413	JH	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	123		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	37.7		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane		·	86.7 %	44.4	!-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			82.4 %	40.6	5-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Keine



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 39 0-15' H251524-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031413	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	TD)		126 %	71.5	-134	5031413	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			83.9 %	44.4	-145	5031408	MS	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			75.4 %	40.6	-153	5031408	MS	14-Mar-25	8015B	

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Celey D. Keene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 40 0-15' H251524-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		118 %	71.5	-134	5031414	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			68.5 %	44.4	-145	5031409	ms	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			64.9 %	40.6	-153	5031409	ms	14-Mar-25	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 41 0-15' H251524-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		113 %	71.5	-134	5031414	JH	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			80.0 %	44.4	-145	5031409	ms	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			76.3 %	40.6	-153	5031409	ms	14-Mar-25	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 42 0-15' H251524-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			116 %	71.5	-134	5031414	JH	14-Mar-25	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			78.9 %	44.4	-145	5031409	ms	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			74.9 %	40.6	-153	5031409	ms	14-Mar-25	8015B	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 43 0-15' H251524-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031443	HM	14-Mar-25	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	(D)		113 %	71.5	-134	5031414	ЈН	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			80.0 %	44.4	-145	5031409	ms	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			75.7 %	40.6	-153	5031409	ms	14-Mar-25	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 44 0-15' H251524-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031449	CT	17-Mar-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		119 %	71.5	-134	5031414	JH	14-Mar-25	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			82.3 %	44.4	-145	5031409	ms	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			78.2 %	40.6	-153	5031409	ms	14-Mar-25	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 45 0-15' H251524-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031449	CT	17-Mar-25	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			121 %	71.5	-134	5031414	JH	14-Mar-25	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			84.4 %	44.4	-145	5031409	ms	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			80.3 %	40.6	-153	5031409	ms	14-Mar-25	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

SW 46 0-15' H251524-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5031449	CT	17-Mar-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5031414	JH	14-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		110 %	71.5	-134	5031414	JH	14-Mar-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031409	ms	14-Mar-25	8015B	
Surrogate: 1-Chlorooctane			81.5 %	44.4	-145	5031409	ms	14-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			77.6 %	40.6	-153	5031409	ms	14-Mar-25	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
,	Tessett	Ziiiit		20.01	1100011	, , , ,	2		Ziiiiv	1.0000
Batch 5031443 - 1:4 DI Water										
Blank (5031443-BLK1)				Prepared &	Analyzed:	14-Mar-25				
Chloride	ND	16.0	mg/kg							
LCS (5031443-BS1)				Prepared &	Analyzed:	14-Mar-25				
Chloride	448	16.0	mg/kg	400		112	80-120			
LCS Dup (5031443-BSD1)				Prepared &	Analyzed:	14-Mar-25				
Chloride	416	16.0	mg/kg	400		104	80-120	7.41	20	
Batch 5031444 - 1:4 DI Water										
Blank (5031444-BLK1)				Prepared & Analyzed: 14-Mar-25						
Chloride	ND	16.0	mg/kg							
LCS (5031444-BS1)				Prepared &	Analyzed:	14-Mar-25				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (5031444-BSD1)				Prepared &	z Analyzed:	14-Mar-25				
Chloride	448	16.0	mg/kg	400		112	80-120	7.41	20	
Batch 5031449 - 1:4 DI Water										
Blank (5031449-BLK1)				Prepared: 1	14-Mar-25 A	Analyzed: 1	7-Mar-25			
Chloride	ND	16.0	mg/kg							
LCS (5031449-BS1)				Prepared: 1	14-Mar-25 A	Analyzed: 1	7-Mar-25			
Chloride	416	16.0	mg/kg	400		104	80-120			

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Celey D. Keene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 5031449 - 1:4 DI Water

LCS Dup (5031449-BSD1)				Prepared: 14-Mar-25 A	nalyzed: 1	7-Mar-25		
Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20

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Celey D. Keene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Benzene

Toluene

Ethylbenzene

Total Xylenes

Total BTEX

Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Number: 03E1558571
Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5031401 - Volatiles										
Blank (5031401-BLK1)				Prepared &	t Analyzed:	14-Mar-25				

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

0.050

0.050

0.050

0.150

0.300

ND

ND

ND

ND

ND

Surrogate: 4-Bromofluorobenzene (PID)	0.0556		mg/kg	0.0500	111	71.5-134	
LCS (5031401-BS1)				Prepared & Ana	lyzed: 14-Mar-25	i	
Benzene	2.00	0.050	mg/kg	2.00	100	82.8-130	
Toluene	2.11	0.050	mg/kg	2.00	105	86-128	
Ethylbenzene	2.17	0.050	mg/kg	2.00	109	85.9-128	
m,p-Xylene	4.23	0.100	mg/kg	4.00	106	89-129	
o-Xylene	2.12	0.050	mg/kg	2.00	106	86.1-125	
Total Xylenes	6.35	0.150	mg/kg	6.00	106	88.2-128	
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500	103	71.5-134	

Surrogate: 4-Bromojiuorobenzene (F1D)	0.0316		mg/kg	0.0300	103	/1.3-134			
LCS Dup (5031401-BSD1)				Prepared & Ana	lyzed: 14-Mar-25				
Benzene	1.91	0.050	mg/kg	2.00	95.5	82.8-130	4.61	15.8	
Toluene	2.08	0.050	mg/kg	2.00	104	86-128	1.54	15.9	
Ethylbenzene	2.15	0.050	mg/kg	2.00	108	85.9-128	0.990	16	
m,p-Xylene	4.17	0.100	mg/kg	4.00	104	89-129	1.47	16.2	
o-Xylene	2.13	0.050	mg/kg	2.00	106	86.1-125	0.333	16.7	
Total Xylenes	6.30	0.150	mg/kg	6.00	105	88.2-128	0.866	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500	104	71.5-134			

Batch 5031413 - Volatiles

Blank (5031413-BLK1)			Prepared & Analyzed: 14-Mar-25
Benzene	ND	0.050	mg/kg
Toluene	ND	0.050	mg/kg
Ethylbenzene	ND	0.050	mg/kg
Total Xylenes	ND	0.150	mg/kg

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Celeg D. Keens

Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Project: PLU CVX JV BS 02H Project Number: 03E1558571

Spike

Level

2.00

4.00

2.00

6.00

0.0500

Source

Result

%REC

122

126

124

125

111

85.9-128

89-129

86.1-125

88.2-128

71.5-134

6.63

5.65

6.38

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

RPD

Limit

16

16.2

16.7

Notes

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

0.050

0.100

0.050

0.150

Result

2.45

5.02

2.49

0.0554

Blank (5031413-BLK1)				Prepared & Analy	yzed: 14-Mar-2:	5			
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0625		mg/kg	0.0500	125	71.5-134			
LCS (5031413-BS1)				Prepared & Analy	yzed: 14-Mar-2:	5			
Benzene	2.14	0.050	mg/kg	2.00	107	82.8-130			
Toluene	2.15	0.050	mg/kg	2.00	107	86-128			
Ethylbenzene	2.29	0.050	mg/kg	2.00	114	85.9-128			
m,p-Xylene	4.75	0.100	mg/kg	4.00	119	89-129			
o-Xylene	2.33	0.050	mg/kg	2.00	117	86.1-125			
Total Xylenes	7.08	0.150	mg/kg	6.00	118	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0543		mg/kg	0.0500	109	71.5-134			
LCS Dup (5031413-BSD1)				Prepared & Analy	yzed: 14-Mar-2:	5			
Benzene	2.07	0.050	mg/kg	2.00	103	82.8-130	3.39	15.8	
Toluene	2.23	0.050	mg/kg	2.00	111	86-128	3.60	15.9	

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

Batch 5031414 - Volatiles

Surrogate: 4-Bromofluorobenzene (PID)

Ethylbenzene

Total Xylenes

m,p-Xylene

o-Xylene

Blank (5031414-BLK1)				Prepared & Analy	zed: 14-Mar-2:	5	
Benzene	ND	0.050	mg/kg				
Toluene	ND	0.050	mg/kg				
Ethylbenzene	ND	0.050	mg/kg				
Total Xylenes	ND	0.150	mg/kg				
Total BTEX	ND	0.300	mg/kg				
Surrogate: 4-Bromofluorobenzene (PID)	0.0545		mg/kg	0.0500	109	71.5-134	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Spike

Source

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5031414 - Volatiles										
LCS (5031414-BS1)				Prepared &	Analyzed:	14-Mar-25	;			
Benzene	2.09	0.050	mg/kg	2.00		104	82.8-130			
Toluene	2.20	0.050	mg/kg	2.00		110	86-128			
Ethylbenzene	2.34	0.050	mg/kg	2.00		117	85.9-128			
m,p-Xylene	4.74	0.100	mg/kg	4.00		118	89-129			
o-Xylene	2.42	0.050	mg/kg	2.00		121	86.1-125			
Total Xylenes	7.16	0.150	mg/kg	6.00		119	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0571		mg/kg	0.0500		114	71.5-134			
LCS Dup (5031414-BSD1)				Prepared &	Analyzed:	14-Mar-25	;			
Benzene	1.87	0.050	mg/kg	2.00		93.5	82.8-130	11.0	15.8	
Toluene	2.06	0.050	mg/kg	2.00		103	86-128	6.41	15.9	
Ethylbenzene	2.32	0.050	mg/kg	2.00		116	85.9-128	0.749	16	
m,p-Xylene	4.72	0.100	mg/kg	4.00		118	89-129	0.403	16.2	
o-Xylene	2.40	0.050	mg/kg	2.00		120	86.1-125	0.980	16.7	
Total Xylenes	7.12	0.150	mg/kg	6.00		119	88.2-128	0.598	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0578		mg/kg	0.0500		116	71.5-134			

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5031358 - General Prep - Organics										
Blank (5031358-BLK1)				Prepared: 1	13-Mar-25 A	nalyzed: 1	4-Mar-25			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.4		mg/kg	50.0		88.8	44.4-145			
Surrogate: 1-Chlorooctadecane	41.7		mg/kg	50.0		83.5	40.6-153			
LCS (5031358-BS1)				Prepared: 1	13-Mar-25 A	nalyzed: 1	4-Mar-25			
GRO C6-C10	208	10.0	mg/kg	200		104	81.5-123			
DRO >C10-C28	192	10.0	mg/kg	200		95.8	77.7-122			
Total TPH C6-C28	400	10.0	mg/kg	400		99.9	80.9-121			
Surrogate: 1-Chlorooctane	46.3		mg/kg	50.0		92.6	44.4-145			
Surrogate: 1-Chlorooctadecane	45.5		mg/kg	50.0		91.1	40.6-153			
LCS Dup (5031358-BSD1)				Prepared: 1	13-Mar-25 A	nalyzed: 1	4-Mar-25			
GRO C6-C10	215	10.0	mg/kg	200		107	81.5-123	3.14	13	
DRO >C10-C28	200	10.0	mg/kg	200		99.8	77.7-122	4.12	15.6	
Total TPH C6-C28	414	10.0	mg/kg	400		104	80.9-121	3.61	18.5	
Surrogate: 1-Chlorooctane	50.0		mg/kg	50.0		100	44.4-145			
Surrogate: 1-Chlorooctadecane	47.8		mg/kg	50.0		95.6	40.6-153			
Batch 5031408 - General Prep - Organics										
Blank (5031408-BLK1)				Prepared &	t Analyzed:	14-Mar-25	5			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.2		mg/kg	50.0		86.4	44.4-145			
Surrogate: 1-Chlorooctadecane	39.2		mg/kg	50.0		78.4	40.6-153			

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Project: PLU CVX JV BS 02H Project Number: 03E1558571

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Apolisto	Dagult	Reporting	Lluita	Spike	Source	%REC	%REC	DDD	RPD	Notes
Analyte	Result	Limit	Units	Level	Result	%KEC	Limits	RPD	Limit	Notes
Batch 5031408 - General Prep - Organics										
LCS (5031408-BS1)				Prepared &	Analyzed:	14-Mar-25	5			
GRO C6-C10	196	10.0	mg/kg	200		97.8	81.5-123			
DRO >C10-C28	196	10.0	mg/kg	200		98.2	77.7-122			
Total TPH C6-C28	392	10.0	mg/kg	400		98.0	80.9-121			
Surrogate: 1-Chlorooctane	44.8		mg/kg	50.0		89.6	44.4-145			
Surrogate: 1-Chlorooctadecane	42.6		mg/kg	50.0		85.2	40.6-153			
LCS Dup (5031408-BSD1)				Prepared &	Analyzed:	14-Mar-25	5			
GRO C6-C10	210	10.0	mg/kg	200		105	81.5-123	7.05	13	
DRO >C10-C28	202	10.0	mg/kg	200		101	77.7-122	2.70	15.6	
Total TPH C6-C28	412	10.0	mg/kg	400		103	80.9-121	4.89	18.5	
Surrogate: 1-Chlorooctane	49.2		mg/kg	50.0		98.3	44.4-145			
Surrogate: 1-Chlorooctadecane	45.3		mg/kg	50.0		90.5	40.6-153			
Batch 5031409 - General Prep - Organics										
Blank (5031409-BLK1)				Prepared &	Analyzed:	14-Mar-25	5			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	41.5		mg/kg	50.0		83.0	44.4-145			
Surrogate: 1-Chlorooctadecane	39.0		mg/kg	50.0		78.0	40.6-153			
LCS (5031409-BS1)				Prepared &	Analyzed:	14-Mar-25	5			
GRO C6-C10	194	10.0	mg/kg	200		97.2	81.5-123			
DRO >C10-C28	183	10.0	mg/kg	200		91.6	77.7-122			
Total TPH C6-C28	378	10.0	mg/kg	400		94.4	80.9-121			
Surrogate: 1-Chlorooctane	42.8		mg/kg	50.0		85.5	44.4-145			
Surrogate: 1-Chlorooctadecane	41.7		mg/kg	50.0		83.4	40.6-153			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Project: PLU CVX JV BS 02H Project Number: 03E1558571

Spike

Level

Source

Result

%REC

Project Manager: AIMEE COLE

Fax To:

Reported: 31-Mar-25 14:08

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

Batch 5031409 - General Prep - Orga	anics								
LCS Dup (5031409-BSD1)				Prepared & Ana	lyzed: 14-Mar-2:	5			
GRO C6-C10	213	10.0	mg/kg	200	107	81.5-123	9.16	13	
DRO >C10-C28	206	10.0	mg/kg	200	103	77.7-122	11.7	15.6	
Total TPH C6-C28	419	10.0	mg/kg	400	105	80.9-121	10.4	18.5	
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0	96.0	44.4-145			
Surrogate: 1-Chlorooctadecane	45.8		mg/kg	50.0	91.6	40.6-153			

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Released to Imaging: 8/18/2025 2:58:10 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	Ensolum, LLC	1						П	H	91113	BI	LL TO	11222			_	ANA	LYS	IS R	EQU	EST			\neg
Project Manager	The state of the s							1	P.0	#:	-	25,2627 4010 31		$\overline{}$					T	T			_	П
Address: 3122	National Parks Hv	ry.						1	Con	npany	v:X	TO Energ	av .	1										Ш
City:Carlsbad		State: NM	Zip	x 8	822	0		_		:Am	_			1				1						Ш
Phone #: 720-3	384-7365	Fax #:							_		-	04 E. G	reen St.	1				ı						Ш
Project #: 03E	1558571	Project Owner	. X	то	Ene	ergy		-		. Car	-			1					1					Ш
Project Name: P	LU CVX JV BS 02					- 07						Zip: 882	20	CLL										Ш
Project Location	32.2258606, -10	3.8471069						_		ne #:		-		0										Ш
Sampler Name:	Bowan Simmons							7	Fax	#				14	1									Ш
FOR LAB USE CINLY		T	Г	П	MATRIX				_	PRESE	RV	SAN	PLING	d										Ш
Lab I.D. <i>H257524</i>	Sample I.D.	Sample Depth (feet)	G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL.	SLUDGE	OTHER:	CE / COOL	100	DATE	TIME	CHLO	BTEX	HOL								
- /	F544	15	C	1		1			T	1		3/13/29	14:19							\top				П
2	F549	15	C	1		1				1			14:21	K	1	1	1							П
3	F5 50	15	C	1		1				/			14:23		/	1								
4	E551	15	C	1		1			1	1		3/13/25	14:25		/									П
S	FS52	15	C	7		1			1	1		3/13/25		/	1	1								
4	F553	15	C	1	4	1		4	1				14:26		1				_					
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8	F555	15	4	7	-	1		-	+	1		3/13/26	14:32	/	1					-		_		
70	F556 F557	15	C	1		1		1	1	1		3/13/25	14:36	1	1	1								

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affiliates or successors winter out of or related to the performance of services between the confidence of control profits and demands.

Relinquished By:	Date: 9-14-25 Time: 0.80	Received By:	2	Verbal Result: Yes No All Results are emailed. Please provid	Add'l Phone #: le Email address:
Relinquished By:	Date:	Received By:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Temp. *C	Sample Condition Cool Intact Yes No No	CHECKED BY: (Initials)	Turnaround Time: Standard Rush 24 hg Thermometer ID #43747770 Correction Factor 4550 +07 32	Bacteria (only) Sample Condition Cool Intact Observed Temp. "C Yes Yes No No Corrected Temp. "C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Page 46 of 48



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	Ensolum, LLC							П	11 (3)	Ē	3/L	L TO	TISTED	15				ANA	ALYS	IS R	REQU	JEST			
Project Manage	r: Aimee Cole								P.O.	#:				Т	Т					T	T	T		T	\neg
Address: 3122	National Parks Hw	y.							Con	npany:	XTO	O Energ	IV.	1			1			1				1	
City:Carlsbad		State: NM	Zip	: 8	8220)		_	_	Amy		The second of the second		1						1				1	
Phone #: 720-	384-7365	Fax #:									-		een St.	1										1	
Project #: 03E	1558571	Project Owner	- X	ТО	Ene	rgy		1	City	Carls	ba	d		1						1					
The second secon	LU CVX JV BS 02	THE RESIDENCE OF THE PROPERTY				-		_				ip: 882	20	1						1					
The same of the sa	32.2258606, -103	A Company of the Comp								ne#:			2350	14	1	1				1				1	
	Bowan Simmons							-	Fax					15	1										
FOR LAB USE CHEY						MA	TRIX	_	_	PRESER	٧	SAN	PLING	12	1					1					
Lab I.D. H25/524	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	DTHER:	ICE / COOL P	- Walley	DATE	TIME	CHLOS	RTEX	TOT									
11	E556	15	C	1		1		97	1	1			14:38			/									
12	F559	15	6	1		1			1	1	3	V13/25	14:34		-	1									
13	F560	15	C	1		1			1	1	3	13/25	14:41		1	1									
14	1561 X	15	C	1	\perp	1			1		13	V13/26	14:42	1	/	1									
15	SW19 29"	0-15	C	1	\perp	1			1		13	/13/25	9:38	/	1	1									
14	SW2030	0-15	C	1	\Box	7		4	1		B	13/25	9:40		-	1					_	1	-	1	
17	5W2431	0-15	C	7	\perp	1		4	+	1			13:34			/				-	-	\perp	\perp	1	\perp
18	SW2032	0-15	C	Ż.	-	A		+	+	N			13:40	1	1	/					-	-	+	-	
19	SW2833	0-15	C	1	+	1		+	+	1			9:46			1				-	+	+	+	+	+
20	200-021	0 10	9	1		1		_	_	17	D	113/2	1640			1				_					

analyses. All chims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 20 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without finitation, business interruptions, loss of use, or loss of profits incurred by client, fits subsidiaries.

Relinquished By:	Date: 3 14 25 Time: Q 25	Received By:		Verbal Result:	
Relinquished By:	Date:	Received By:		REMARKS: * Customer re	quiste & Saupe
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. "C	1000	CHECKED BY:	Thermonester ID and the Cool	aria (only) Sample Condition Intact Observed Temp. "C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

7/29/2025 2:47:50 PM

Received by OCD:

Page 47 of 48



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	Ensolum, LLC							-Street	В	IL	L TO	A SEC					A	NAL	YSIS	REC	QUES	ST		
Project Manage	r: Aimee Cole							P.O.	#;				$\overline{}$	Т	Т	Т	\neg		T	T	T	\top	\neg	
Address: 3122	National Parks Hw	y.						Com	pany: >	хто	Ener	gy	7											
City:Carlsbad		State: NM	Zip	: 8	3220	Y_			Amy				1								- 1			
Phone #: 720-	384-7365	Fax #:	-		***			-		_		reen St									- 1			
Project #: 03E	1558571	Project Owner	. X	то	Ener	αv			Carls				1		- 1						- 1			
	LU CVX JV BS 02					97		-	:NM			20	1	4	- 1						- 1			
A REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO PERSONS ASSESSED.	32.2258606, -103							Phor					- 6	-	- 1						- 1			
The same of the sa	Bowan Simmons	Parametria avenue						Fax #					1	4	- 1						- 1			
FOR LAB USE ONLY			Т	П	MATRIX				RESERV	٧Ī	SAM	IPLING	45	\vee							- 1			
Lab I.D. <i>H25]524</i>	Sample I.D.	Sample Depth (feet)	G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER: ACIDIRASE:	CE / COOLS		DATE	TIME	(7		BLEX	Hdl								
21	5W26 35	0-15	C	1		1				3,	13/2	9:50		1					\neg		\neg			
22	SW 2634	0-15	C	1		V			1	3	13/26	12:12		1	J	/								
23 04	5W 2 37	0-15	C	1		1			N	3/	113/25	9:54		1										
04	5W2438	0-15	(7	_	1		_	N	-	-	9:56	_	1	1	/								
25	5w2039	0-15	C	7		1	\perp	1	N			9:59		1	1	1								
26	SW30 40	0-15	C	1		V		1	V	-		10:27	_	1	V	1	_							
87 87 38	SW3141	0-15	C	71		1		-	V			10:01		1	1	/	_	_	_	_	_		_	
08	SW 3242	0-15	Č	Ť	+	1	+	+	1			13:22		1	1	1	-	-	-	-	-	-	_	
29	5W3343	0-15	Ċ	1	+	1		+				13:2		1	1	N	_	-	-	-	-	_	-	
30	2 M 2 M	0-15		1		N				3/	13/25	10120)	1	/	1								

PLEASE NOTE: Unbitty and Damages: Conduct's lattify, and client's exclusive remedy for any claim similar whether issued in contact or tort, shall be limited to the amount paid by the sheet for the analyses. All claims including those for negligence and any other cause whetherever shall be desired waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no avertishal Certifical be liable for incidential or corresponds dismages, including without limitation, business interruptions, toos of use of profits incurred by client, its absolidations.

Relinquished By:	Date: 314-35 Time: 927	Received By:		Verbal Result:
Relinquished By:	Date: Time:	Received By:		Customer. 40. 3/28/25
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. "C Corrected Temp. "C	Sample Condition Cool Intact Yes Yes No No	CHECKED BY: (Initials)	Turnaround Time: Standard Bacteria (only) Sample Condition 2 U \ \(\chi_1 \) Thermometer ID \$1377770 Correction Factor -0.5°C +0 -3 -

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

AP 3-14-25

Released to Imaging: 8/18/2025 2:58:10 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	Ensolum, LLC		-					В	ILL TO	CHE SHAD				ANA	LYSIS	REQU	JEST		
Project Manager	THE SAME AND ADDRESS OF THE SA					7	P.O. #	t:							П				
Address: 3122	National Parks Hw	y.					Comp	any: X	TO Energ	ly	1								
City:Carlsbad		State: NM	Zip: 8	38220		- 1	Attn:/	Amy F	Ruth		1								- 1 1
Phone #: 720-3	384-7365	Fax #:				1	Addre	ss: 31	04 E. Gr	een St.	1								
Project #: 03E	1558571	Project Owner	XTO	Ener	gy		City: (Carlst	pad		1								
Project Name: P	LU CVX JV BS 02	Н					State:	NM	Zip: 882	20	100								
Project Location	32.2258606, -103	.8471069					Phone	o #:			13								
Sampler Name:	Bowan Simmons						ax#				14								
FOR LAB USE DNLY			П		MATR	X	PR	ESERV	SAN	PLING	1 2								
Lab I.D. <i>H25 52</i> 4	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP # CONTAINERS	GROUNDWATER	SOIL	SLUDGE	ACID/BASE:	CE/COOL	DATE	TIME	CHLO	BTEX	#dL						
31 32	5W3645	0-15	41		N				3/13/2	13:32		/	1						
32	5W3646	0-19	CI		N	П	┸	1	3/13/29	10:24	/	/	_						
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PLEASE NOTE: Listify and Denager. Cerdna's tability and slent's exclusive remety for any claim, arising whether based in context or lod, shall be limited to the amount paid by the client for the analyses. All claims including those his regignerie and any other cause whatsoever shall be desired waited duries a made in writing and incolved by, Cardinal within 30 days after completion of the applicable services and any other causes whatsoever shall be desired without property of the services of the services of the applicable services. In no event shall Cardinal be labely listed for incidental or corresponds of an emistry for the services because of the applicable services and any other cardinal services because of the services because of the services because of the services because or the s

Relinquished By:	Date: 4-25 Tiese: 92>	Received By:	511365 (300)	Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address:	- 1
Relinquished By:	Date: Time:	Received By:		Changes to 3/28/25	d
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C L Corrected Temp. °C	Sample Condition Cool Intact Yes Yes No No	CHECKED BY: (Initials)	Turnaround Time: Standard Bacteria (only) Sample Condition 24 Kr Thermometer ID #444 Correction Factor #5°C + 0 -3 -	

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8-14-as



March 28, 2025

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: PLU CVX JV BS 02H

Enclosed are the results of analyses for samples received by the laboratory on 03/27/25 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/27/2025 Sampling Date: 03/26/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 (RECLAMATION) Sample Received By: Tamara Oldaker

A I J D. ... 711

Project Location: XTO 32.2258606, -103.8471069

Sample ID: FS 37A 12' (H251808-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	2.10	105	2.00	5.70	
Toluene*	<0.050	0.050	03/27/2025	ND	2.14	107	2.00	5.35	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	2.33	116	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	7.06	118	6.00	5.66	
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2025	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	197	98.7	200	2.77	
DRO >C10-C28*	10.8	10.0	03/27/2025	ND	188	94.0	200	0.608	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	88.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	87.7	% 40.6-15	3						

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Celeg D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/27/2025 Sampling Date: 03/26/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 (RECLAMATION) Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.2258606, -103.8471069

Sample ID: FS 38A 12' (H251808-02)

RTFY 8021R

BIEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	2.10	105	2.00	5.70	
Toluene*	<0.050	0.050	03/27/2025	ND	2.14	107	2.00	5.35	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	2.33	116	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	7.06	118	6.00	5.66	
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2025	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	197	98.7	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	188	94.0	200	0.608	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	92.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.1	% 40.6-15	3						

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/27/2025 Sampling Date: 03/26/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact Project Number: 03E1558571 (RECLAMATION) Sample Received By: Tamara Oldaker

Project Location: XTO 32.2258606, -103.8471069

Sample ID: SW 20 0-11' (H251808-03)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	2.10	105	2.00	5.70	
Toluene*	<0.050	0.050	03/27/2025	ND	2.14	107	2.00	5.35	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	2.33	116	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	7.06	118	6.00	5.66	
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/28/2025	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	197	98.7	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	188	94.0	200	0.608	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	89.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.8	% 40.6-15	3						

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/27/2025 Sampling Date: 03/26/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 (RECLAMATION) Sample Received By: Tamara Oldaker

Project Location: XTO 32.2258606, -103.8471069

Sample ID: SW 30 0-18' (H251808-04)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	2.10	105	2.00	5.70	
Toluene*	<0.050	0.050	03/27/2025	ND	2.14	107	2.00	5.35	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	2.33	116	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	7.06	118	6.00	5.66	
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2025	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	197	98.7	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	188	94.0	200	0.608	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	86.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.4	% 40.6-15	3						

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Celeg D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/27/2025 Sampling Date: 03/26/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 (RECLAMATION) Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.2258606, -103.8471069

ma/ka

Sample ID: FS 48A 18' (H251808-05)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	2.15	108	2.00	0.251	
Toluene*	<0.050	0.050	03/27/2025	ND	2.33	117	2.00	2.26	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	2.58	129	2.00	2.88	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	7.85	131	6.00	2.54	
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2025	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	197	98.7	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	188	94.0	200	0.608	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	93.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.7	% 40.6-15	3						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/27/2025 Sampling Date: 03/26/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact Project Number: 03E1558571 (RECLAMATION) Sample Received By: Tamara Oldaker

Project Location: XTO 32.2258606, -103.8471069

Sample ID: SW 37 0-19' (H251808-06)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	2.15	108	2.00	0.251	
Toluene*	<0.050	0.050	03/27/2025	ND	2.33	117	2.00	2.26	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	2.58	129	2.00	2.88	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	7.85	131	6.00	2.54	
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2025	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	197	98.7	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	188	94.0	200	0.608	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	92.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.4	% 40.6-15	3						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/27/2025 Sampling Date: 03/26/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E1558571 (RECLAMATION) Tamara Oldaker

Project Location: XTO 32.2258606, -103.8471069

Sample ID: SW 38 0-19' (H251808-07)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	2.15	108	2.00	0.251	
Toluene*	<0.050	0.050	03/27/2025	ND	2.33	117	2.00	2.26	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	2.58	129	2.00	2.88	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	7.85	131	6.00	2.54	
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	132 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2025	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	197	98.7	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	188	94.0	200	0.608	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	93.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.9	% 40.6-15	3						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/27/2025 Sampling Date: 03/26/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 (RECLAMATION) Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.2258606, -103.8471069

mg/kg

Sample ID: FS 54A 19' (H251808-08)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	2.15	108	2.00	0.251	
Toluene*	<0.050	0.050	03/27/2025	ND	2.33	117	2.00	2.26	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	2.58	129	2.00	2.88	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	7.85	131	6.00	2.54	
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	133	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2025	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	197	98.7	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	188	94.0	200	0.608	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	79.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.6	% 40.6-15	3						

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/27/2025 Sampling Date: 03/26/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact Project Number: 03E1558571 (RECLAMATION) Sample Received By: Tamara Oldaker

Project Location: XTO 32.2258606, -103.8471069

Sample ID: FS 53A 19' (H251808-09)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	2.15	108	2.00	0.251	
Toluene*	<0.050	0.050	03/27/2025	ND	2.33	117	2.00	2.26	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	2.58	129	2.00	2.88	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	7.85	131	6.00	2.54	
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	137 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2025	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	197	98.7	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	188	94.0	200	0.608	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	88.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.2	% 40.6-15	3						

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C-04



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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/27/2025 Sampling Date: 03/26/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 (RECLAMATION) Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.2258606, -103.8471069

Sample ID: FS 57A 18' (H251808-10)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	2.15	108	2.00	0.251	
Toluene*	<0.050	0.050	03/27/2025	ND	2.33	117	2.00	2.26	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	2.58	129	2.00	2.88	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	7.85	131	6.00	2.54	
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	136	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	197	98.7	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	188	94.0	200	0.608	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	87.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	86.7	% 40.6-15	3						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/27/2025 Sampling Date: 03/26/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact
Project Number: 03E1558571 (RECLAMATION) Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.2258606, -103.8471069

mg/kg

Sample ID: FS 56A 18' (H251808-11)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	2.15	108	2.00	0.251	
Toluene*	<0.050	0.050	03/27/2025	ND	2.33	117	2.00	2.26	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	2.58	129	2.00	2.88	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	7.85	131	6.00	2.54	
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	96.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	95.5	% 40.6-15	3						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/27/2025 Sampling Date: 03/26/2025

Reported: 03/28/2025 Sampling Type: Soil

Project Name: PLU CVX JV BS 02H Sampling Condition: Cool & Intact 03E1558571 (RECLAMATION) Sample Received By: Project Number: Tamara Oldaker

Project Location: XTO 32.2258606, -103.8471069

Sample ID: FS 60A 18' (H251808-12)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2025	ND	2.15	108	2.00	0.251	
Toluene*	<0.050	0.050	03/27/2025	ND	2.33	117	2.00	2.26	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	2.58	129	2.00	2.88	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	7.85	131	6.00	2.54	
Total BTEX	<0.300	0.300	03/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	132 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	217	109	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	198	99.2	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					
Surrogate: 1-Chlorooctane	94.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	93.5	% 40.6-15	3						

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6° C Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 15 of 16



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Nan Project Manage	er: Aimee Cole						- 1	BILL TO)	9	_		ANIA	LVCIC	1		
						P.	0. #:			T	T		ANA	LTSIS	REQUI	EST	
city: Carlsb	2 National Parks H					Co	ompany:	XTO Ene	eray Inc.	1		1 1					
		State: NM	Zip:	88220			tn: Amy		37	1		1 1					
	0-384-7365	Fax#:						Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, whi	reene St			1 1					
roject#: 03		Project Owne	or: XT	0			y: Carls			+							
Project Name:	PLU CVX JV BS 0	2H - Reclama	tion					Zip: 882	220	-		1 1					0 0
	n: 32.2258606, -10	3.8471069					one #:	Zip; 002	20	1		1 1					
	Azad Vojdani						C#:		_	-		1 1					
FOR LAB USE ONLY			П	l N	ATRIX	_	PRESERV	/I SAN	IPLING	-							
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OM	GROUNDWATER	OIL	THER:	ACID/BASE: ICE / COOL C	DATE	TIME	BTEX	ТРН	CHLORIDE					
-7	FS37A	12	CI				1	03-21-2		/	-	-	-	_			
2	F338A	12	11				V	1	0934	V.	Y,	V,	+				
2	5620	0-11	11/				1		0941	V	V	V,	1				
7	5W30	0-18			1		1		0951	Y	Y	V	1	-			
1	F548A	18	111				1		1000	1	γ,	Y	+	-	-		
5	SW34	0-19	111	V			1		1219.	/	Y/	1	+	-	+ +	-	
8	5W38 FS54A	0-19	111	1			1		1225	1	1	Y	1 1		-	-	-
9	F353A	191	111	1			1		1344	1	1)		-	1		
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analyses. All claims including these for negligence and any other cause whethoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In its event shall Certified be liable for incidental or consequented demages, including without limitation, business interrup

Relinquished By:	73-37-35 Time: 13-30	ived By:	Verbal Result: Yes A No Add'l Phone #: All Results are emailed, Please provide Email address; TMorrissey@ensolum.com, Acole@ensolum.com, AVojdani@ensolum.com
Delivered By: (Circle One)	Time:		REMARKS: GFCM: 48804902 API: 30-015-37147 AFE: PA.2024.08097.EXP.01
Sampler - UPS - Bus - Other:	Corrected Temp COIL	Sample Condition CHECKED BY: Cool intact (Initials) Yes Yes No No Ccept verbal changes. Please email cha	Turnaround Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. *C Corrected Feeter 45°C 40-30 No No Corrected Temp. *C

[†] Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com

Page 16 of 16



Ensolum, LLC

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

2

Project Manager: Aimee Cole Address: 3122 National Parks Hwy							P.O. #: ANALYSIS REQUEST																
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APPENDIX C

March 10, 2020, Deferral Request



LT Environmental, Inc.

3300 North "A" Street Building 1, Unit 103 Midland, Texas 79705 432.704.5178

March 10, 2020

Mr. Bradford Billings New Mexico Oil Conservation Division 1220 South St. Francis Drive, #3 Santa Fe, New Mexico 87505

RE: Deferral Request

Poker Lake Unit Big Sinks 11 Federal Battery Remediation Permit Number 2RP-3887 Eddy County, New Mexico

Dear Mr. Billings:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following report detailing site assessment, soil sampling, and excavation activities at the Poker Lake Unit (PLU) Big Sinks 11 Federal Battery (Site) in Unit P, Section 11, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil resulting from a crude oil release at the Site. Based on the results of the soil sampling events, XTO is submitting this Deferral Request, describing remediation that has occurred and requesting deferral of final remediation.

The release is included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the New Mexico Oil Conservation Division (NMOCD) effective November 13, 2018. The purpose of the Compliance Agreement is to ensure reportable releases that occurred prior to August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) as amended on August 14, 2018. The release is categorized as a Tier IV site in the Compliance Agreement, meaning the release occurred prior to August 14, 2018, the effective date of 19.15.29 NMAC; however, remediation was ongoing.

RELEASE BACKGROUND

On September 13, 2016, a Victaulic check valve cap failed on the LACT unit, causing approximately 79 barrels (bbls) of crude oil to release onto the surface of the well pad. A vacuum truck recovered approximately 42 bbls of oil from the ground surface. The former operator reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on September 14, 2016, and was assigned Remediation Permit (RP) Number 2RP-3887 (Attachment 1).



SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the NMAC. Depth to groundwater at the Site is estimated to be between greater than 100 feet below ground surface (bgs) based on the nearest water well data. The nearest permitted water well with depth to water data is United States Geological Survey (USGS) well 321334103494901, located approximately 4,955 feet east of the Site. The water well has a depth to groundwater of approximately 367 feet bgs and a total depth of 500 feet bgs. Ground surface elevation at the water well location is 3,522 feet above mean sea level (AMSL), which is approximately 43 feet higher in elevation than the Site. The closest continuously flowing water or significant watercourse to the Site is an intermittent stream approximately 250 feet north 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 located in a low-potential karst area.

CLOSURE CRITERIA

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

Benzene: 10 milligrams per kilogram (mg/kg);

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg;

Total petroleum hydrocarbons (TPH): 100 mg/kg; and

Chloride: 600 mg/kg.

SITE ASSESSMENT, EXCAVATION, AND DELINEATION SOIL SAMPLING ACTIVITIES

On February 13, 2018, LTE personnel inspected the Site to evaluate the release extent. Surficial hydrocarbon staining was observed in the release area. An LTE scientist collected eight preliminary soil samples (SS01 through SS08) within the release area to assess the lateral extent of impacted soil. The soil sample locations, depicted on Figure 2, were selected based on information provided on the initial Form C-141 and field observations. To eliminate the effects from weathering and natural degradation of contaminants at the ground surface, the soil samples were collected from each sample location from a depth of 0.5 feet bgs.

The 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 shipped at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Midland, Texas, for analysis of BTEX following United States



Environmental Protection Agency (USEPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following USEPA Method 8015M/D; and chloride following USEPA Method 300.0. The soil sample locations are depicted on Figure 2.

During March and December 2019, LTE personnel returned to the Site to oversee excavation and delineation activities.

Impacted soil was excavated from the release area as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples. To direct excavation activities, LTE screened soil for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach© chloride QuanTab© test strips, respectively. Impacted soil was excavated to depths ranging from 1 foot to 7 feet bgs. Following removal of impacted soil, LTE collected 5-point composite soil samples every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by depositing five aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW18 were collected from the sidewalls of the excavation from depths ranging from ground surface to 6 feet bgs. Composite soil samples FS01 through FS26, FS09A, FS10A, FS15A, FS16A, and FS18A were collected from the floor of the excavation from depths ranging from 1 foot to 7 feet bgs. The excavation extent and excavation soil sample locations are depicted on Figure 3.

Further excavation of impacted soil to the east was limited by the presence of active production equipment and pipelines. Potholes were advanced via backhoe at five locations around the production equipment to delineate the maximum extent of impacted soil left in place. Potholes PH01 through PH05 were advanced to a depth of 8 feet bgs. Delineation soil samples were collected from each pothole at depths ranging from 2 foot to 8 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 2. The pothole delineation soil sample locations are depicted on Figure 4.

The excavation and delineation soil samples were collected, handled, and analyzed as described above and submitted to Xenco. Photographic documentation was conducted during the Site visits. Photographs are included in Attachment 3.

The excavation measured approximately 9,000 square feet in area with a depth of 1 foot to 7 feet bgs. A total of approximately 1,700 cubic yards of impacted soil were removed from the excavation. The impacted soil was transported and properly disposed of at the R360 Landfill located in Hobbs, New Mexico.



ANALYTICAL RESULTS

Laboratory analytical results indicated that TPH concentrations exceeded the Closure Criteria in preliminary soil samples SS01 through SS08. Based on visible surface staining and laboratory analytical results for the preliminary soil samples, excavation and delineation of impacted soil was conducted.

Laboratory analytical results indicated that TPH concentrations initially exceeded the Closure Criteria in excavation sidewall samples SW01 through SW03, SW05 through SW07, SW09, SW16 through SW18, and excavation floor samples FS01 through FS04, FS09, FS10/FS10A, FS15, FS16, and FS18. Additional impacted soil was removed from these areas, to the extent possible. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria in final excavation sidewall samples SW04, SW08, and SW10 through SW15 and final excavation floor samples FS05 through FS08, FS09A, FS11 through FS14, FS15A, FS16A, FS17, FS18A, and FS19 through FS26.

Further excavation of impacted soil beyond sidewall samples SW06, SW07, and SW16 through SW18 was limited by the presence of active production equipment and pipelines. XTO safety policy restricts soil disturbing activities to a 2 foot radius of any active production equipment and pipelines. This XTO safety policy is established to protect workers and reduce the likelihood of compromising the foundation of the process equipment. This policy was enforced on the eastern excavation sidewall where impacted soil was identified within 2 feet of active production equipment and pipelines in excavation sidewall samples SW06, SW07, and SW16 through SW18.

Potholes PH01 through PH05 were advanced around the production equipment to delineate the maximum extent of impacted soil left in place. Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH05 indicated that BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the laboratory analytical results for the pothole soil samples, the lateral and vertical extent of impacted soil was delineated.

The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

DEFERRAL REQUEST

A total of approximately 1,700 cubic yards of impacted soil were excavated from the Site; however, residual impacted soil was left in place for compliance with the XTO safety policy regarding earth moving activities within 2 feet of active production equipment and pipelines. Impacted soil was excavated to the extent possible. Laboratory analytical results for excavation sidewall samples SW06, SW07, and SW16 through SW18, collected at depths ranging from the ground surface to 6 feet bgs, indicated that soil with TPH concentrations exceeding the Closure



Criteria was left in place within 2 feet of active production equipment and pipelines. The impacted soil remaining in place is delineated vertically and laterally by excavation soil samples SW11, SW15, FS05, FS06, FS16A, FS17, FS18A, and FS19, collected from the sidewalls and floor of the final excavation extent, and the delineation soil samples collected from potholes PH01 through PH05. An estimated 800 cubic yards of impacted soil remains in place, assuming a maximum 7 foot depth based on the excavation and delineation soil samples listed above collected from depths of 0 to 8 feet bgs, that were compliant with the Closure Criteria. Upon completion of excavation activities, a 10% solution of MicroBlaze®, a concentrated solution of microbes, nutrients, and surfactants designed to bioremediate petroleum hydrocarbons, was applied to the sidewalls and floor of the excavation to enhance remediation of residual hydrocarbons.

XTO backfilled the excavation and requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first. LTE and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The majority of the released fluids were recovered during initial response activities and no saturated soil remains in-place. XTO requests deferral of final remediation for RP Number 2RP-3887. An updated NMOCD Form C-141 is included as Attachment 1.

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

Ashley L. Ager

Ashley L. Ager, P.G.

Senior Geologist

Sincerely,

LT ENVIRONMENTAL, INC.

Linée Cale

Aimee Cole

Project Environmental Scientist

cc: Kyle Littrell, XTO

Mike Bratcher, NMOCD

Bureau of Land Management

Attachments:

Figure 1 Site Location Map

Figure 2 Preliminary Soil Sample Locations

Figure 3 Excavation Soil Sample Locations



Figure 4 Delineation Soil Sample Locations

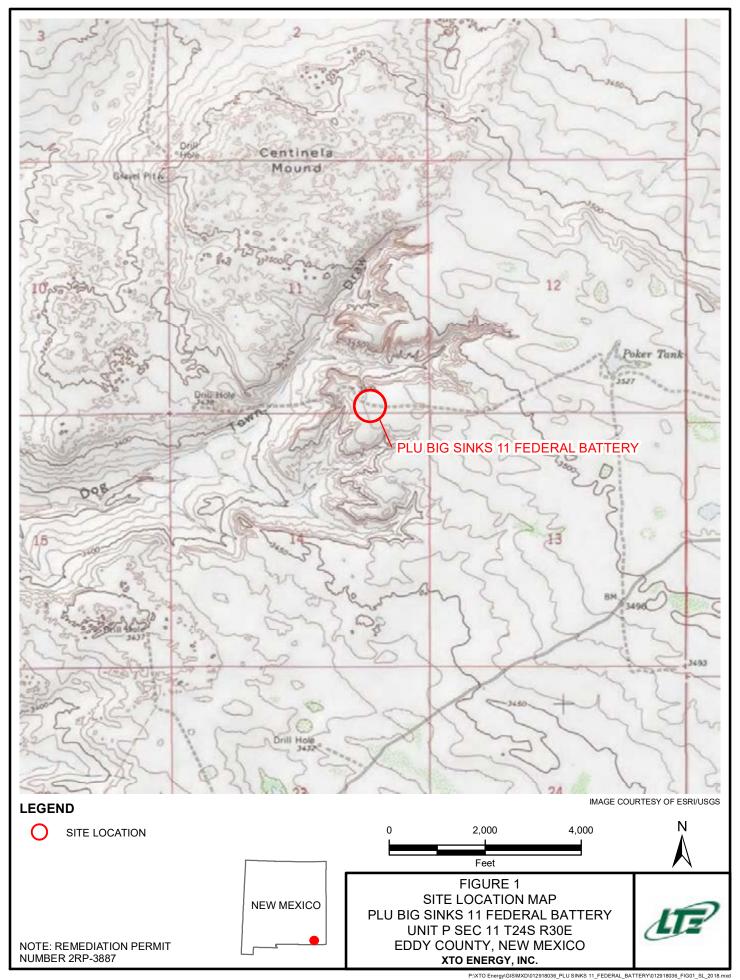
Table 1 Soil Analytical Results

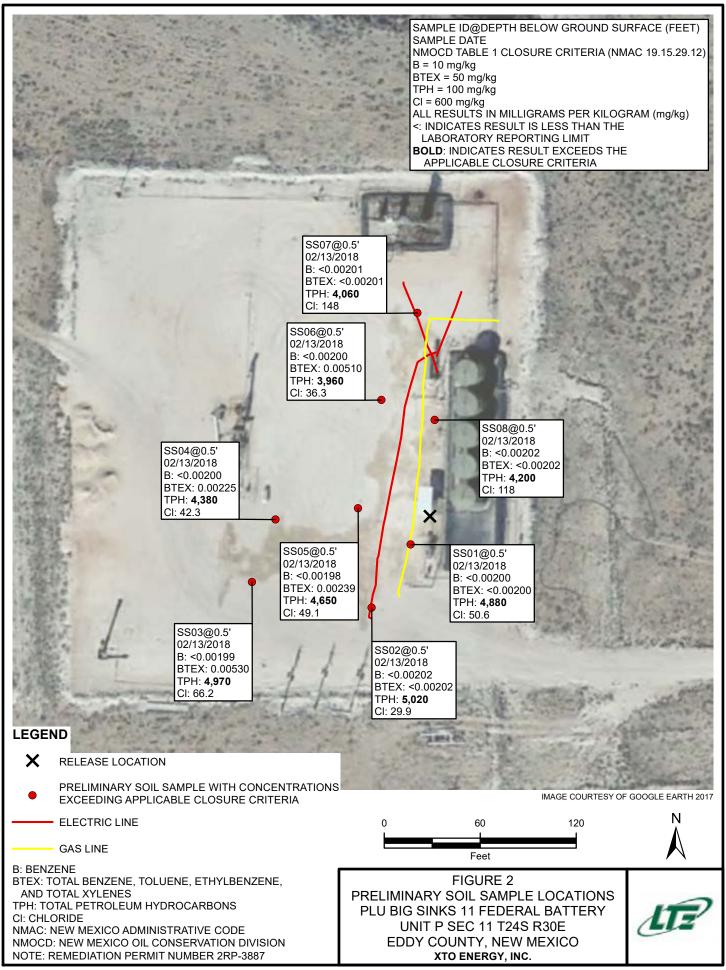
Attachment 1 Initial/Final NMOCD Form C-141 (2RP-3887)

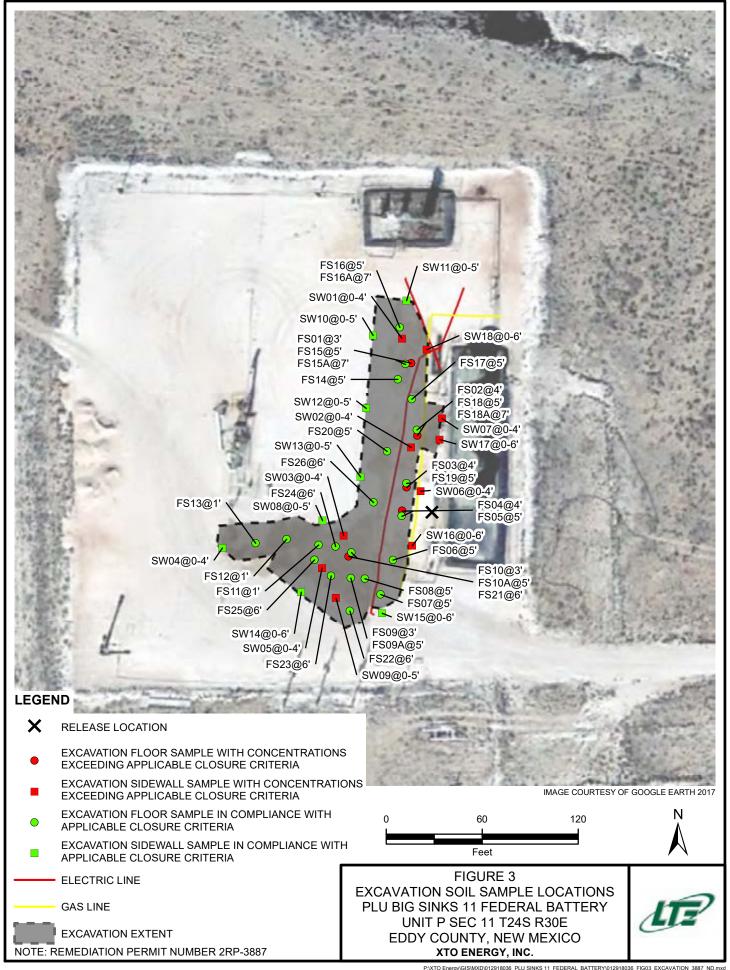
Attachment 2 Lithologic / Soil Sample Logs

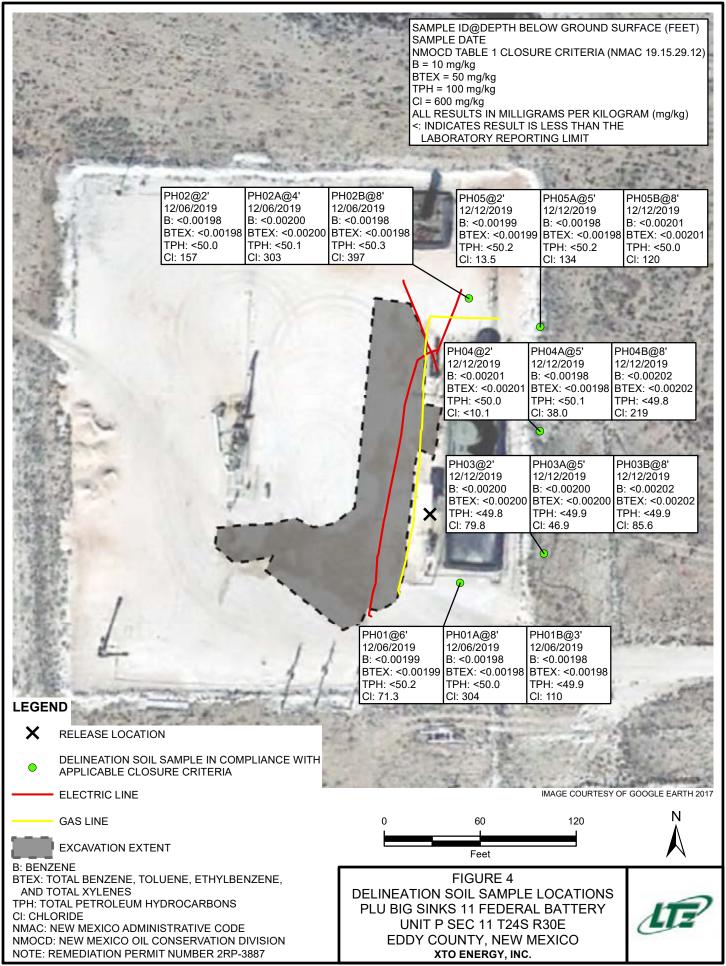
Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports











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TABLE 1 SOIL ANALYTICAL RESULTS

PLU BIG SINKS 11 FEDERAL BATTERY REMEDIATION PERMIT NUMBER 2RP-3887 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD	Table 1 Closur	e Criteria	10	NE	NE	NE	50	NE	NE	NE	NE	100	600
SS01	0.5	02/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<74.9	4,180	697	4,180	4,880	50.6
SS02	0.5	02/13/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<74.9	4,320	699	4,320	5,020	29.9
SS03	0.5	02/13/2018	<0.00199	0.00243	<0.00199	0.00287	0.00530	<74.7	4,260	705	4,260	4,970	66.2
SS04	0.5	02/13/2018	<0.00200	<0.00200	<0.00200	0.00225	0.00225	107	3,680	593	3,790	4,380	42.3
SS05	0.5	02/13/2018	<0.00198	<0.00198	<0.00198	0.00239	0.00239	<74.7	3,990	663	3,990	4,650	49.1
SS06	0.5	02/13/2018	<0.00200	0.00228	<0.00200	0.00282	0.00510	<74.9	3,400	562	3,400	3,960	36.3
SS07	0.5	02/13/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<74.9	3,520	544	3,520	4,060	148
SS08	0.5	02/13/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<74.8	3,600	599	3,600	4,200	118
SW01	0 - 4	03/29/2019	<0.00199	0.00266	<0.00199	0.00824	0.0109	20.0	792	128	812	940	64.5
SW02	0 - 4	03/29/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<14.9	404	79.2	404	483	70.2
SW03	0 - 4	03/29/2019	<0.00199	<0.00199	<0.00199	0.00798	0.00798	19.9	629	92.8	649	742	9.58
SW04	0 - 4	03/29/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	56.6	<15.0	56.6	56.6	44.9
SW05	0 - 4	03/29/2019	<0.00200	0.00286	<0.00200	0.0368	0.0397	66.5	838	123	905	1,030	5.19
SW06	0 - 4	03/29/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	221	28.4	221	249	13.6
SW07	0 - 4	03/29/2019	<0.00201	0.0108	0.00865	0.119	0.138	127	1,820	259	1,950	2,210	23.8
SW08	0 - 5	12/03/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	<10.1
SW09	0 - 5	12/03/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.9	180	<49.9	180	180	<10.0
SW10	0 - 5	12/04/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	<9.98
SW11	0 - 5	12/04/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	58.9	<50.1	58.9	58.9	<10.0
SW12	0 - 5	12/05/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.3	<50.3	<50.3	<50.3	<50.3	42.4
SW13	0 - 5	12/05/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	82.4
SW14	0 - 6	12/10/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.3	<50.3	<50.3	<50.3	<50.3	13
SW15	0 - 6	12/10/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	58.4	<49.8	58.4	58.4	<9.88
SW16	0 - 6	12/12/2019	<0.00200	<0.00200	<0.00200	0.00201	0.00201	<50.0	2060	211	2060	2,270	<9.98
SW17	0 - 6	12/12/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	685	122	685	807	<9.94
SW18	0 - 6	12/12/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.1	741	81.5	741	823	<9.92

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TABLE 1 SOIL ANALYTICAL RESULTS

PLU BIG SINKS 11 FEDERAL BATTERY REMEDIATION PERMIT NUMBER 2RP-3887 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD	Table 1 Closur	e Criteria	10	NE	NE	NE	50	NE	NE	NE	NE	100	600
FS01	3	03/29/2019	<0.00200	<0.00200	<0.00200	0.0162	0.0162	<15.0	289	57.5	289	347	16.8
FS02	4	03/29/2019	<0.00199	< 0.00199	<0.00199	<0.00199	<0.00199	<15.0	210	35.1	210	245	25.6
FS03	4	03/29/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<14.9	425	67.4	425	492	33.0
FS04	4	03/29/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	375	58.9	375	434	70.9
FS05	5	03/29/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	26.8	<15.0	26.8	26.8	7.51
FS06	5	03/29/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	37.5	<15.0	37.5	37.5	6.85
FS07	5	03/29/2019	<0.00199	< 0.00199	<0.00199	<0.00199	<0.00199	<15.0	27.3	<15.0	27.3	27.3	7.07
FS08	5	03/29/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	28.2	<15.0	28.2	28.2	5.42
FS09	3	03/29/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	155	19.2	155	174	14.0
FS09A	5	12/03/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	62.4	<50.3	62.4	62.4	<9.98
FS10	3	03/29/2019	<0.00202	0.00816	0.0711	0.519	0.598	410	1,620	165	2,030	2,200	7.95
FS10A	5	12/03/2019	< 0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.1	139	<50.1	139	139	<10.1
FS11	1	03/29/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<14.9	34.6	<14.9	34.6	34.6	21.8
FS12	1	03/29/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	60.2	<15.0	60.2	60.2	30.5
FS13	1	03/29/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	69.3	<15.0	69.3	69.3	27.3
FS14	5	12/04/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	99.4	<50.0	99.4	99.4	<10.0
FS15	5	12/04/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	169	<50.2	169	169	<10.0
FS15A	7	12/10/2019	< 0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	95.9	<50.2	95.9	95.9	13.1
FS16	5	12/04/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	320	<50.1	320	320	<10.0
FS16A	7	12/10/2019	< 0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	10.5
FS17	5	12/05/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	100	<50.2	100	100	11.6
FS18	5	12/05/2019	<0.00199	< 0.00199	<0.00199	<0.00199	<0.00199	<50.2	184	<50.2	184	184	<9.98
FS18A	7	12/10/2019	< 0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	84.7	<50.1	84.7	84.7	<9.98
FS19	5	12/05/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	<9.92
FS20	5	12/05/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	<10.1
FS21	6	12/10/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	<9.92
FS22	6	12/10/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	<9.94
FS23	6	12/10/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	<9.96
FS24	6	12/10/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	<9.96
FS25	6	12/10/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	<9.98
FS26	6	12/10/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	<9.92

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TABLE 1 **SOIL ANALYTICAL RESULTS**

PLU BIG SINKS 11 FEDERAL BATTERY REMEDIATION PERMIT NUMBER 2RP-3887 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD	Table 1 Closur	e Criteria	10	NE	NE	NE	50	NE	NE	NE	NE	100	600
PH01	6	12/06/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	71.3
PH01A	8	12/06/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	304
PH01B	3	12/06/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	110
PH02	2	12/06/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	157
PH02A	4	12/06/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	303
PH02B	8	12/06/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.3	<50.3	<50.3	<50.3	<50.3	397
PH03	2	12/12/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	79.8
PH03A	5	12/12/2019	< 0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	46.9
PH03B	8	12/12/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	85.6
PH04	2	12/12/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	<10.1
PH04A	5	12/12/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	38.0
PH04B	8	12/12/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	219
PH05	2	12/12/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	13.5
PH05A	5	12/12/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.2	<50.2	<50.2	<50.2	<50.2	134
PH05B	8	12/12/2019	<0.00201	< 0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	120

Notes:

bgs - below ground surface

ORO - motor oil range organics

BTEX - benzene, toluene, ethylbenzene, and total xylenes NMAC - New Mexico Administrative Code

DRO - diesel range organics

NMOCD - New Mexico Oil Conservation Division

GRO - gasoline range organics

NE - not established

mg/kg - milligrams per kilogram

TPH - total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

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

NM OIL CONSERVATION

ARTESIA DISTRICT

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

State of New Mexico Energy Minerals and Natural Resources

SEP 1 4 2016

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in RECEIVED relace with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr.

				Sa	nta F	e, NM 875	05						
			Rele	ase Notific	atio	n and Co	rrective A	ction	1				
NAB	1625	93431	02			OPERA'	ror			al Report	П	Final Report	
Name of Co			24	0737		Contact: Bradley Blevins							
Address: 52	2 W. Mer	mod, Suite 70		ad, N.M. 88220		Telephone No. 575-887-7329							
Facility Nat JV BS 0021		Big Sinks 11	Federal E	Battery (PLU CV	/X	Facility Typ	e: Exploration	and Pro	oduction	<u></u>			
Surface Ow	ner: Feder	al		Mineral C	wner:	Federal	<u></u>		API No	.30-015-37	7147		
				LOCA	TIO	N OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/	West Line	County			
P	11	24S	255			1300			Eddy				
				Latitude: 32	.22597	5 Longitud	e: 103.847008						
				NAT	'URE	OF REL	EASE						
Type of Rele							Release: 79 barr			Recovered: 4			
Source of Re	lease: Victa	aulic check val	ve cap fai	led on lact unit			Hour of Occurrence	ce:		Hour of Dis	covery	:	
Was Immedi	ate Notice (Given?	·····	· · · · · · · · · · · · · · · · · · ·		9-13-16 @			9-13-10 (2) 12:00pm			
			Yes [No 🗌 Not Re	quired		cher, Heather Patt	terson, .	im Amos B	LM			
By Whom? I							Hour: 9-13-16 2 1						
Was a Water	course Read	ched?	Yes 🗵	No		If YES, Vo	olume Impacting	the Wat	ercourse.				
If a Waterco	urse was Im	pacted, Descri	be Fully.*	<u> </u>		_l	·····						
			_										
					_,								
Describe Cai	ise of Probl	em and Remed	lial Action	n Taken.*									
				it releasing crude sed fluid remained			vacuum truck wa	s called	to the locat	ion and was	able to	recover 42	
Dancis Or On	nom me gi	ouita surrace.	An Icica:	sea maia remaine	ı on urc	wen pau.							
Describe Are	a Affected	and Cleanup A	ction Tak	en.*									
				as able to recover a sampling event		rrels of oil; a r	emediation respo	nse crev	v was dispa	tched to the	locatio	n to begin	
				is true and comp nd/or file certain r									
				ce of a C-141 repo									
should their	operations h	nave failed to a	dequately	investigate and r	emedia	te contaminat	ion that pose a thi	reat to g	round water	r, surface wa	ater, hu	man health	
		ws and/or regu		tance of a C-141	report (loes not reliev	e the operator of	respons	sibility for c	ompiiance v	viin an	y otner	
	·						OIL CON	SERV	ATION	DIVISIO	<u>N</u>		
Signature: o	7000	len D	1				,		1 1				
Signature.	ب جات حو	4 00	<u></u>			Approved by	Signed By Environmental S	neciali	4 DKA	elle se			
Printed Name	e: Bradley I	Blevins					Zivironinonai c	Poorum					
Title: Assista	ınt Remedia	ation Foreman				Approval Da	te:0 15 1	6	Expiration	Date:	VA		
E-mail Addr	ess: bblevin	is@basspet.coi	m			Conditions o	f Approval:	1					
						Remediati	on per O.C.D	. Ruic	es & Guio	Attached			
Date: 9	14-16	-4 TC > T :		432-214-3704		208MIL H	EWEDIĄJĘC	PRC	POSAL	MO			
Attach Addi	monal She	ets If Necess	ary			LATER TH	AN:	1541	10_		ZK	P-388°	

District I
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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

Responsible Party: XTO Energy, Inc

Contact Name: Kyle Littrell

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	
District RP	2RP-3887
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID: 5380

Contact Telephone: (432)-221-7331

Contact ema	il: Kyle_Lit	trell@xtoenergy.co	om	Incident #	Incident #: 2RP-3887			
Contact mail NM 88220	ing address:	522 W. Mermod, S	Suite 704 Carlsbac	1,				
			Location	of Release S	ource			
Latitude N 32	2.225975				<u>W -103.84700</u>	8		
				mal degrees to 5 deci				
		ts 11 Federal Batter	У	Site Type:	Production W	Vell Facility		
Date Release	Discovered:	9/13/2016		API# (if ap	plicable): 30-01;	5-37147		
Unit Letter	Section	Township	Range	Cou	ntv			
P	11	24S	30E	Edd				
Surface Owner	r: State		bal Private (N	'ame:)		
			Nature and	Volume of	Dalagga			
			Nature and	volume of	Keiease			
Crude Oi	Materia	Volume Released		calculations or specific		the volumes provided below)		
					Volume Recovered (bbls): 42			
Produced	water	Volume Released	i (bbis):		Volume Recovered (bbls):			
			on of dissolved ch	loride in the	de in the Yes No			
Condensa	ite	volume Released			Volume Recovered (bbls)			
Natural G	ias	Volume Released	l (Mcf)		Volume Recovered (Mcf)			
Other (de	scribe)	Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)			
			·					
Cause of Rel		l						
		cap failed on the Land on the Well pad.	ACT unit, releasing	g crude oil to the	location. Free-	standing fluids were recovered. All		
rereased fluid	i icilialilea o	ii tiic weli pad.						

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Incident ID	
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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release? Release volume was greater than 25 bbls.
19.15.29.7(A) NMAC?	
⊠ Yes □ No	
If VEC in distant	action strong to the OCD2 Developer 2 To subserv2 When and be substanced (above area) at \2
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? ike Bratcher/Heather Patterson (NMOCD) and Jim Amos (BLM) on 9/13/2016 at 1:43 pm.
	Initial Response
The responsible p	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.
	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described N/A	d above have <u>not</u> been undertaken, explain why:
N/A	
has begun, please attach	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 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
	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
	e Littrell Title: _SH&E Supervisor
Signature:	Date: <u>3-10-2020</u>
email: <u>Kyle Littrell@xto</u>	<u>renergy.com</u> Telephone: <u>432-221-7331</u>
OCD Only	
Received by:	Date:

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	⊠ Yes □ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well \infty Field data 	ls.
☐ 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	
☐ Borning of 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.

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District RP	2RP-3887		
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kyle Littrell

Title: SH&E Supervisor

Signature: January Januar

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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
 ☑ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Kyle Littrell Title: SH&E Supervisor
Signature: Date:
email: Kyle Littrell@xtoenergy.com Telephone: (432)-221-7331
OCD Only
Received by: Date:
Approved
Signature: Date:

	25	THE R. L.		5 Carl	08 Wes sbad, N	ronmenta t Stevens lew Mexic ngineering	Street to 88220			Identifier: PHO1 Project Name: PLL BS 14 Tedeol Box	Date: 12-6-2014 RP Number:
	Lat/Long:		LITHOI	LOGIC	/ SOII	L SAMPLING LOG Field Screening: CHLORIDES, PID.				Logged By: 8-8- L40 Hole Diameter:	Method: Takkee Total Depth:
	Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type		Litholog	gy/Remarks
						1					
47	Nue	i.0 (7189	6.1	Nie	3	3 4	3'		Light	bown, no odur mpiny, pourly grad organs	, no moistner no led, fine grained scid,
5	New	O.R. 7(168	0-1	None	1	6	6'		rople	- brum, no oder strug, pourly grade organizes	ino moisture, no clumpy sel, fine-growned sondi
35	shre	207	0.1	Nue	2	9	5.5		SAI	+	
						11	+ + + + + + + + + + + + + + + + + + + +				

11 U En les	?		5 Carl	08 Wes Isbad, I	ironment st Stevens New Mexic		Identifier: PHO2 Project Name: PLU BS FEECO Boddey	Date: 12/6/2019 RP Number:		
Compliance · Engineering · Remediation LITHOLOGIC / SOIL SAMPLING LOG at/Long: Field Screening: CHLORIDES, PID.									Logged By B.B. (A) Hole Diameter:	Method: Total Depth:
Comment							<u> </u>			
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type		Lithology	/Remarks
	2.0 (215)	0.0	Nove		1 2 3 4 5 6 7 8 9 10 11	2 4		Light Pour	brown, no moist	moisture, no climping, gromed send, no climping growed send, no climping, growed send, no climping

LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220						s Street		Identifier: PHo 3 Project Name:	Date: /2 -13 -1 9 RP Number:	
*									PLU 85 11 Fed Battery	227-3887
Lat/Long		LITHO	LOGI	IC / SOI	Field Scree			Logged By: 12 Hole Diameter:	Method: Track hase	
Commen	ts:			* 1			Tronc Diameter.	Total Depth: 8		
	1)	C		9'						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth		Lithology/Remarks		
					0]		sp-sun	0-1	nd, brown in odor, graded itrace	row stain mo-f, poorly
0	4179	0.0	4	PHo3	2	ı'		2-8		
					3			Calibe', ten, offuhite, no odor, no stain		
	c179		Ŋ	9H03A	4					
0		0.0			5	51				
					6					
					7					
9	<175	0.0	N	PHo3B	8	8'				
					9				D e 8'	
					10					
					11					
					12					

LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220								Identifier: PHOY Project Name: PLU BS 11 Fed Raffe	Date: 12 - 13 - 19 RP Number: 288-3887	
LITHOLOGIC / SOIL SAMPLING LOG									Logged By: 5L	Marked A 1 2
.at/Long: Field						PID PID	Thlorida		Hole Diameter.	Total Depth:
omment	is:	7 6	8'							
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type		Litholo	gy/Remarks
					0]		S F-SIM	D	-1 Salibrare. Poorly gi	no odor no stain, m-f, inded stace silt
0	2179	0.0	N	P HOYA	2	2'	CCHE	l-		
					3			calille, tra, offubite, au odor, no stam		
		0.0	n		4					
)		0,0			5	5				
Ī,					6					
					7					
	<179	0.0	2	pHoYB	8	8'				
					9			10	@ 8'	
					10					
					11					
					12					

U Environ	mental inc.		С	LT Env 508 We arlsbad,	ironment st Stevens New Mexi	al, Inc. Street co 8822	0		Identifier: PHOS Project Name: PLU &S 11 Fed Battery	Date: 12-13-19 RP Number: 2RP-3887
		LITHO	LOGI	C / SOI	L SAMPI		OG		Logged By: 5L	
Lat/Long					Field Scree	PID	Chlorida		Hole Diameter:	Total Depth:
Commen	is:	TD (9 8'							
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)		Soil/Rock Type		Lithology/Re	emarks
					0 1		St-Svn		brown, no odor, no state	air, m-f, poorly grade
0	2179	0.0	7	p Ho5	2	2		2-8		
				-	3 4		CCHE			
D	<179	0.0	N	рно <i>SA</i>		5'	Cur			
					6					
D	<179	0.0	N	PHOSE	7	81				
					9			D	e 8'	
					10					
					11					
					12					



Received by OCD: 3/29/2025 2:47:50 PM

PHOTOGRAPHIC LOG



Photograph 1: Northwest facing view of excavation.



Photograph 2: North facing view of excavation.

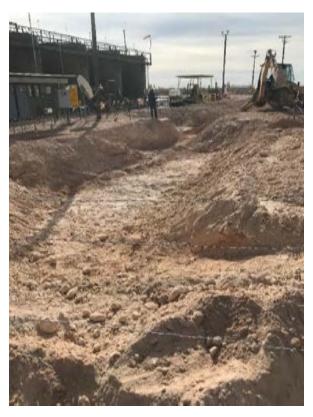
PLU Big Sinks 11 Federal Battery Eddy County, New Mexico Photographs Taken: December 2019

Received by OCD: 3/29/2025 2:47:50 PM

PHOTOGRAPHIC LOG



Photograph 3: North facing view of excavation.



Photograph 4: South facing view of excavation.

PLU Big Sinks 11 Federal Battery Eddy County, New Mexico Photographs Taken: December 2019





Analytical Report 576503

for

LT Environmental, Inc.

Project Manager: Adrian Baker
PLU Big Sinks 11 Federal

23-FEB-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





23-FEB-18

Project Manager: Adrian Baker LT Environmental, Inc. 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): 576503

PLU Big Sinks 11 Federal

Project Address: NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 576503. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 576503 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

fession Weamer

Odessa Laboratory Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Sample Cross Reference 576503



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	02-13-18 16:10	6 In	576503-001
SS02	S	02-13-18 16:20	6 In	576503-002
SS03	S	02-13-18 16:30	6 In	576503-003
SS04	S	02-13-18 16:40	6 In	576503-004
SS05	S	02-13-18 16:50	6 In	576503-005
SS06	S	02-13-18 17:00	6 In	576503-006
SS07	S	02-13-18 17:10	6 In	576503-007
SS08	S	02-13-18 17:20	6 In	576503-008

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU Big Sinks 11 Federal

Project ID: Report Date: 23-FEB-18 Work Order Number(s): 576503 Date Received: 02/14/2018

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3041453 BTEX by EPA 8021B

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

Batch: LBA-3041865 Inorganic Anions by EPA 300

Lab Sample ID 576503-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 576503-003, -004, -005, -006, -007, -008.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analysis Summary 576503

LT Environmental, Inc., Arvada, CO

Project Name: PLU Big Sinks 11 Federal

Project Id:

Contact: Adrian Baker

Project Location: NM **Date Received in Lab:** Wed Feb-14-18 06:00 pm

Report Date: 23-FEB-18 Project Manager: Jessica Kramer

	Lab Id:	576503-	001	576503-0	002	576503-0	003	576503-	004	576503-	005	576503-	006
A sa what is Do not sate d	Field Id:	SS01		SS02		SS03		SS04		SS05		SS06	5
chylbenzene chylbe	Depth:	6- In											
	Matrix:	SOIL		SOIL	.	SOIL		SOIL		SOIL	.	SOIL	_
	Sampled:	Feb-13-18	16:10	Feb-13-18	16:20	Feb-13-18	16:30	Feb-13-18	16:40	Feb-13-18	16:50	Feb-13-18	17:00
BTEX by EPA 8021B	Extracted:	Feb-16-18	15:30	Feb-16-18	15:30	Feb-16-18	15:30	Feb-16-18	15:30	Feb-16-18	15:30	Feb-16-18	15:30
	Analyzed:	Feb-16-18	23:02	Feb-16-18	23:21	Feb-16-18	23:40	Feb-16-18	23:59	Feb-17-18	00:18	Feb-17-18	00:36
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene	·	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00200	0.00200
Toluene		< 0.00200	0.00200	< 0.00202	0.00202	0.00243	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	0.00228	0.00200
Ethylbenzene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00200	0.00200
m,p-Xylenes		< 0.00401	0.00401	< 0.00404	0.00404	< 0.00398	0.00398	< 0.00399	0.00399	< 0.00396	0.00396	< 0.00401	0.00401
o-Xylene		< 0.00200	0.00200	< 0.00202	0.00202	0.00287	0.00199	0.00225	0.00200	0.00239	0.00198	0.00282	0.00200
Total Xylenes		< 0.00200	0.00200	< 0.00202	0.00202	0.00287	0.00199	0.00225	0.00200	0.00239	0.00198	0.00282	0.00200
Total BTEX		< 0.00200	0.00200	< 0.00202	0.00202	0.00530	0.00199	0.00225	0.00200	0.00239	0.00198	0.00510	0.00200
Inorganic Anions by EPA 300	Extracted:	Feb-21-18	17:00	Feb-21-18	17:00	Feb-22-18	12:55	Feb-22-18	12:55	Feb-22-18	12:55	Feb-22-18	12:55
	Analyzed:	Feb-22-18	02:54	Feb-22-18	02:59	Feb-22-18	12:55	Feb-22-18	14:19	Feb-22-18	13:13	Feb-22-18	13:19
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride	·	50.6	4.99	29.9	4.92	66.2	4.87	42.3	5.04	49.1	4.89	36.3	5.04
TPH by SW8015 Mod	Extracted:	Feb-18-18	14:00	Feb-18-18	14:00	Feb-18-18	14:00	Feb-18-18	14:00	Feb-18-18	14:00	Feb-18-18	14:00
	Analyzed:	Feb-19-18	06:58	Feb-19-18	07:18	Feb-19-18	07:38	Feb-19-18	07:58	Feb-19-18	08:18	Feb-19-18	08:38
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<74.9	74.9	<74.9	74.9	<74.7	74.7	107	74.8	<74.7	74.7	<74.9	74.9
Diesel Range Organics (DRO)		4180	74.9	4320	74.9	4260	74.7	3680	74.8	3990	74.7	3400	74.9
Oil Range Hydrocarbons (ORO)		697	74.9	699	74.9	705	74.7	593	74.8	663	74.7	562	74.9
Total TPH		4880	74.9	5020	74.9	4970	74.7	4380	74.8	4650	74.7	3960	74.9

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

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Version: 1.%

Jessica Kramer



Certificate of Analysis Summary 576503

LT Environmental, Inc., Arvada, CO Project Name: PLU Big Sinks 11 Federal



Project Id:

Contact: Adrian Baker

Project Location: NM

Date Received in Lab: Wed Feb-14-18 06:00 pm

Report Date: 23-FEB-18
Project Manager: Jessica Kramer

	Lab Id:	576503-0	007	576503-0	800			
Analysis Requested	Field Id:	SS07		SS08				
Anatysis Requested	Depth:	6- In		6- In				
	Matrix:	SOIL		SOIL				
	Sampled:	Feb-13-18 1	17:10	Feb-13-18	17:20			
BTEX by EPA 8021B	Extracted:	Feb-16-18 1	15:30	Feb-16-18	15:30			
	Analyzed:	Feb-17-18 (00:59	Feb-17-18	01:17			
	Units/RL:	mg/kg	RL	mg/kg	RL			
nzene		< 0.00201	0.00201	< 0.00202	0.00202			
bluene		< 0.00201	0.00201	< 0.00202	0.00202			
hylbenzene		< 0.00201	0.00201	< 0.00202	0.00202			
p-Xylenes		< 0.00402	0.00402	< 0.00404	0.00404			
o-Xylene			0.00201	< 0.00202	0.00202			
Total Xylenes			0.00201	< 0.00202	0.00202			
Total BTEX		< 0.00201	0.00201	< 0.00202	0.00202			
Inorganic Anions by EPA 300	Extracted:	Feb-22-18 1	12:55	Feb-22-18	12:55			
	Analyzed:	Feb-22-18 1	13:31	Feb-22-18	13:37			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Chloride		148	4.93	118	4.93			
TPH by SW8015 Mod	Extracted:	Feb-18-18 1	14:00	Feb-18-18	14:00			
	Analyzed:	Feb-19-18 (08:57	Feb-19-18 (09:17			
Units/R.		mg/kg	RL	mg/kg	RL			
asoline Range Hydrocarbons (GRO)		<74.9	74.9	<74.8	74.8	 _		
iesel Range Organics (DRO)		3520	74.9	3600	74.8			
Oil Range Hydrocarbons (ORO)		544	74.9	599	74.8			
Total TPH		4060	74.9	4200	74.8			

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

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Version: 1.%

Jessica Kramer Odessa Laboratory Director





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

Sample Id: **SS01** Matrix: Soil

Date Received:02.14.18 18.00

Date Collected: 02.13.18 16.10

Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: OJS % Moisture:

OJS

Analyst:

Date Prep: 02.21.18 17.00 Basis:

Wet Weight

Seq Number: 3041790

Lab Sample Id: 576503-001

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	50.6	4.99	mg/kg	02.22.18 02.54		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

02.18.18 14.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<74.9	74.9		mg/kg	02.19.18 06.58	U	5
Diesel Range Organics (DRO)	C10C28DRO	4180	74.9		mg/kg	02.19.18 06.58		5
Oil Range Hydrocarbons (ORO)	PHCG2835	697	74.9		mg/kg	02.19.18 06.58		5
Total TPH	PHC635	4880	74.9		mg/kg	02.19.18 06.58		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	02.19.18 06.58		
o-Terphenyl		84-15-1	96	%	70-135	02.19.18 06.58		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

Soil

02.16.18 15.30

Date Received:02.14.18 18.00

Date Collected: 02.13.18 16.10

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

SS01

ALJ

Prep Method: SW5030B

Wet Weight

ALJ % Moisture: Date Prep:

Matrix:

Basis:

Seq Number: 3041453

Lab Sample Id: 576503-001

Sample Id:

Tech:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.16.18 23.02	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.16.18 23.02	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.16.18 23.02	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	02.16.18 23.02	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	02.16.18 23.02	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	02.16.18 23.02	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	02.16.18 23.02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	88	%	80-120	02.16.18 23.02		
4-Bromofluorobenzene		460-00-4	102	%	80-120	02.16.18 23.02		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

Soil

Sample Id: SS02 Matrix:

Date Received:02.14.18 18.00

Lab Sample Id: 576503-002 Date Collected: 02.13.18 16.20

Sample Depth: 6 In

Basis:

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

02.21.18 17.00

Wet Weight

Seq Number: 3041790

OJS

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29.9	4.92	mg/kg	02.22.18 02.59		1

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst:

Analyst:

ARM ARM

Date Prep: 02.18.18 14.00

Basis: W

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<74.9	74.9		mg/kg	02.19.18 07.18	U	5
Diesel Range Organics (DRO)	C10C28DRO	4320	74.9		mg/kg	02.19.18 07.18		5
Oil Range Hydrocarbons (ORO)	PHCG2835	699	74.9		mg/kg	02.19.18 07.18		5
Total TPH	PHC635	5020	74.9		mg/kg	02.19.18 07.18		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	02.19.18 07.18		
o-Terphenyl		84-15-1	90	%	70-135	02.19.18 07.18		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

Sample Id: Soil

Date Received:02.14.18 18.00

Date Collected: 02.13.18 16.20

Matrix:

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

SS02

Prep Method: SW5030B

Tech: ALJ

Lab Sample Id: 576503-002

% Moisture:

Analyst: ALJ

02.16.18 15.30 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	02.16.18 23.21	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	02.16.18 23.21	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	02.16.18 23.21	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	02.16.18 23.21	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	02.16.18 23.21	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	02.16.18 23.21	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	02.16.18 23.21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	111	%	80-120	02.16.18 23.21		
1,4-Difluorobenzene		540-36-3	81	%	80-120	02.16.18 23.21		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

Sample Id: **SS03** Matrix: Soil

Date Received:02.14.18 18.00

Lab Sample Id: 576503-003 Date Collected: 02.13.18 16.30 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

% Moisture:

Tech: LRI

Analyst:

Seq Number: 3041865

OJS

Date Prep: 02.22.18 12.55 Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	66.2	4.87	mg/kg	02.22.18 12.55		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

02.18.18 14.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<74.7	74.7		mg/kg	02.19.18 07.38	U	5
Diesel Range Organics (DRO)	C10C28DRO	4260	74.7		mg/kg	02.19.18 07.38		5
Oil Range Hydrocarbons (ORO)	PHCG2835	705	74.7		mg/kg	02.19.18 07.38		5
Total TPH	PHC635	4970	74.7		mg/kg	02.19.18 07.38		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	102	%	70-135	02.19.18 07.38		
o-Terphenyl		84-15-1	97	%	70-135	02.19.18 07.38		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

02.16.18 15.30

Sample Id: Soil

Date Received:02.14.18 18.00

Date Collected: 02.13.18 16.30

Matrix:

Date Prep:

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

SS03

ALJ

Lab Sample Id: 576503-003

Prep Method: SW5030B

Tech: ALJ % Moisture: Basis: Wet Weight

02.16.18 23.40

Seq Number: 3041453

1,4-Difluorobenzene

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	02.16.18 23.40	U	1
Toluene	108-88-3	0.00243	0.00199		mg/kg	02.16.18 23.40		1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	02.16.18 23.40	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	02.16.18 23.40	U	1
o-Xylene	95-47-6	0.00287	0.00199		mg/kg	02.16.18 23.40		1
Total Xylenes	1330-20-7	0.00287	0.00199		mg/kg	02.16.18 23.40		1
Total BTEX		0.00530	0.00199		mg/kg	02.16.18 23.40		1
		<i>a</i>	%	·	- · ·			
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	115	%	80-120	02.16.18 23.40		

93

80-120

540-36-3



Lab Sample Id: 576503-004

OJS

Certificate of Analytical Results 576503



1

LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

Soil

Sample Id: **SS04** Matrix:

16887-00-6

Date Received:02.14.18 18.00

Wet Weight

Date Collected: 02.13.18 16.40

Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

% Moisture:

LRI Tech:

Analyst:

Chloride

Basis: 02.22.18 12.55

mg/kg

Seq Number: 3041865

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil

Date Prep:

42.3

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

02.22.18 14.19

% Moisture:

Tech: Analyst: ARM ARM

02.18.18 14.00 Date Prep:

5.04

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	107	74.8		mg/kg	02.19.18 07.58		5
Diesel Range Organics (DRO)	C10C28DRO	3680	74.8		mg/kg	02.19.18 07.58		5
Oil Range Hydrocarbons (ORO)	PHCG2835	593	74.8		mg/kg	02.19.18 07.58		5
Total TPH	PHC635	4380	74.8		mg/kg	02.19.18 07.58		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	02.19.18 07.58		
o-Terphenyl		84-15-1	95	%	70-135	02.19.18 07.58		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

Soil

Matrix:

Date Received:02.14.18 18.00

Lab Sample Id: 576503-004 Date Collected: 02.13.18 16.40

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

SS04

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Sample Id:

Date Prep: 02.16.18 15.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.16.18 23.59	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.16.18 23.59	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.16.18 23.59	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	02.16.18 23.59	U	1
o-Xylene	95-47-6	0.00225	0.00200		mg/kg	02.16.18 23.59		1
Total Xylenes	1330-20-7	0.00225	0.00200		mg/kg	02.16.18 23.59		1
Total BTEX		0.00225	0.00200		mg/kg	02.16.18 23.59		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	88	%	80-120	02.16.18 23.59		
4-Bromofluorobenzene		460-00-4	100	%	80-120	02.16.18 23.59		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

Sample Id: **SS05** Matrix: Soil Date Received:02.14.18 18.00

Lab Sample Id: 576503-005 Date Collected: 02.13.18 16.50 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: LRI % Moisture:

OJS

Analyst:

Date Prep:

Basis: 02.22.18 12.55

Wet Weight

Seq Number: 3041865

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	49.1	4.89	mg/kg	02.22.18 13.13		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

02.18.18 14.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<74.7	74.7		mg/kg	02.19.18 08.18	U	5
Diesel Range Organics (DRO)	C10C28DRO	3990	74.7		mg/kg	02.19.18 08.18		5
Oil Range Hydrocarbons (ORO)	PHCG2835	663	74.7		mg/kg	02.19.18 08.18		5
Total TPH	PHC635	4650	74.7		mg/kg	02.19.18 08.18		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-135	02.19.18 08.18		
o-Terphenyl		84-15-1	100	%	70-135	02.19.18 08.18		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

Soil

Matrix:

Date Received:02.14.18 18.00

Lab Sample Id: 576503-005 Date Collected: 02.13.18 16.50

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

SS05

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Sample Id:

Date Prep: 02.16.18 15.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	02.17.18 00.18	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	02.17.18 00.18	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	02.17.18 00.18	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	02.17.18 00.18	U	1
o-Xylene	95-47-6	0.00239	0.00198		mg/kg	02.17.18 00.18		1
Total Xylenes	1330-20-7	0.00239	0.00198		mg/kg	02.17.18 00.18		1
Total BTEX		0.00239	0.00198		mg/kg	02.17.18 00.18		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	88	%	80-120	02.17.18 00.18		
4-Bromofluorobenzene		460-00-4	101	%	80-120	02.17.18 00.18		



Lab Sample Id: 576503-006

OJS

Certificate of Analytical Results 576503



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

Sample Id: SS06 Matrix: Soil

Date Received:02.14.18 18.00

Date Collected: 02.13.18 17.00

Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

% Moisture:

Tech: LRI

Analyst:

Date Prep: 02.22.18 12.55

Basis: Wet Weight

Seq Number: 3041865

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	36.3	5.04	mg/kg	02.22.18 13.19		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:

Analyst:

ARM ARM

Date Prep: 02.18.18 14.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<74.9	74.9		mg/kg	02.19.18 08.38	U	5
Diesel Range Organics (DRO)	C10C28DRO	3400	74.9		mg/kg	02.19.18 08.38		5
Oil Range Hydrocarbons (ORO)	PHCG2835	562	74.9		mg/kg	02.19.18 08.38		5
Total TPH	PHC635	3960	74.9		mg/kg	02.19.18 08.38		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	90	%	70-135	02.19.18 08.38		
o-Terphenyl		84-15-1	89	%	70-135	02.19.18 08.38		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

Soil

Date Received:02.14.18 18.00

Lab Sample Id: 576503-006 Date Collected: 02.13.18 17.00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

SS06

Prep Method: SW5030B

Tech: ALJ % Moisture:

Analyst: ALJ

Sample Id:

02.16.18 15.30 Date Prep:

Matrix:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.17.18 00.36	U	1
Toluene	108-88-3	0.00228	0.00200		mg/kg	02.17.18 00.36		1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.17.18 00.36	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	02.17.18 00.36	U	1
o-Xylene	95-47-6	0.00282	0.00200		mg/kg	02.17.18 00.36		1
Total Xylenes	1330-20-7	0.00282	0.00200		mg/kg	02.17.18 00.36		1
Total BTEX		0.00510	0.00200		mg/kg	02.17.18 00.36		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	86	%	80-120	02.17.18 00.36		
4-Bromofluorobenzene		460-00-4	107	%	80-120	02.17.18 00.36		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

Soil

Sample Id: SS07 Matrix:

Lab Sample Id: 576503-007 Date Collected: 02.13.18 17.10

Date Received:02.14.18 18.00

Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: LRI

Analyst: OJS

Date Prep: 02.22.18 12.55

% Moisture: Basis:

Wet Weight

Seq Number: 3041865

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	148	4.93	mø/kø	02.22.18.13.31		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech:
Analyst:

ARM ARM

Date Prep: 02.18.18 14.00

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<74.9	74.9		mg/kg	02.19.18 08.57	U	5
Diesel Range Organics (DRO)	C10C28DRO	3520	74.9		mg/kg	02.19.18 08.57		5
Oil Range Hydrocarbons (ORO)	PHCG2835	544	74.9		mg/kg	02.19.18 08.57		5
Total TPH	PHC635	4060	74.9		mg/kg	02.19.18 08.57		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	02.19.18 08.57		
o-Terphenyl		84-15-1	92	%	70-135	02.19.18 08.57		



SS07

ALJ

Analytical Method: BTEX by EPA 8021B

Certificate of Analytical Results 576503



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

02.16.18 15.30

Matrix: Soil Date Received:02.14.18 18.00
Date Collected: 02.13.18 17.10 Sample Depth: 6 In

Lab Sample Id: 576503-007 Date Collected: 02.13.18 17.10

Prep Method: SW5030B

% Moisture:

Tech: ALJ

Basis: Wet Weight

Seq Number: 3041453

Sample Id:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	02.17.18 00.59	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	02.17.18 00.59	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	02.17.18 00.59	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	02.17.18 00.59	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	02.17.18 00.59	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	02.17.18 00.59	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	02.17.18 00.59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	80-120	02.17.18 00.59		
1,4-Difluorobenzene		540-36-3	96	%	80-120	02.17.18 00.59		

Date Prep:





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

Sample Id: **SS08** Matrix: Soil

Date Received:02.14.18 18.00

Lab Sample Id: 576503-008 Date Collected: 02.13.18 17.20 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: LRI % Moisture:

OJS Analyst:

Date Prep: 02.22.18 12.55 Basis:

Wet Weight

Seq Number: 3041865

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	118	4.93	mg/kg	02.22.18 13.37		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

02.18.18 14.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<74.8	74.8		mg/kg	02.19.18 09.17	U	5
Diesel Range Organics (DRO)	C10C28DRO	3600	74.8		mg/kg	02.19.18 09.17		5
Oil Range Hydrocarbons (ORO)	PHCG2835	599	74.8		mg/kg	02.19.18 09.17		5
Total TPH	PHC635	4200	74.8		mg/kg	02.19.18 09.17		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	02.19.18 09.17		
o-Terphenyl		84-15-1	95	%	70-135	02.19.18 09.17		



SS08

Analytical Method: BTEX by EPA 8021B

Certificate of Analytical Results 576503



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal

02.16.18 15.30

Sample Id: Matrix: Soil

Sample Depth: 6 In

Lab Sample Id: 576503-008 Date Collected: 02.13.18 17.20

Prep Method: SW5030B

Date Received:02.14.18 18.00

Tech: ALJ % Moisture:

Date Prep:

Basis: Wet Weight

Analyst: ALJ

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	02.17.18 01.17	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	02.17.18 01.17	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	02.17.18 01.17	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	02.17.18 01.17	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	02.17.18 01.17	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	02.17.18 01.17	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	02.17.18 01.17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	80-120	02.17.18 01.17		
1,4-Difluorobenzene		540-36-3	86	%	80-120	02.17.18 01.17		



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

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

DL Method Detection Limit

NC Non-Calculable

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

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E300P

E300P

E300P

02.21.18

Prep Method:

Prep Method:

Date Prep:



QC Summary 576503

LT Environmental, Inc.

PLU Big Sinks 11 Federal

Analytical Method: Inorganic Anions by EPA 300 Seq Number:

3041790 Matrix: Solid

LCS Sample Id: 7639564-1-BKS LCSD Sample Id: 7639564-1-BSD MB Sample Id: 7639564-1-BLK

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

02.22.18 00:25 Chloride < 5.00 250 274 110 273 109 90-110 0 20 mg/kg

Analytical Method: Inorganic Anions by EPA 300

Prep Method: Seq Number: 3041865 Matrix: Solid Date Prep: 02.22.18

MB Sample Id: 7639620-1-BLK LCS Sample Id: 7639620-1-BKS LCSD Sample Id: 7639620-1-BSD

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

Chloride < 5.00 250 268 107 258 103 90-110 20 mg/kg 02.22.18 12:44

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3041790 Matrix: Soil Date Prep: 02.21.18

MS Sample Id: 576500-005 S MSD Sample Id: 576500-005 SD Parent Sample Id: 576500-005

Spike MS %RPD RPD Limit Units Parent MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec Chloride 126 245 369 99 390 108 90-110 20 02.22.18 00:41 6 mg/kg

Analytical Method: Inorganic Anions by EPA 300

E300P Prep Method: Seq Number: 3041790 Matrix: Soil 02.21.18 Date Prep: 576501-003 S MSD Sample Id: 576501-003 SD Parent Sample Id: 576501-003 MS Sample Id:

MS %RPD RPD Limit Units Parent Spike MS **MSD** Limits Analysis **MSD** Flag **Parameter** Result Result %Rec Date Amount Result %Rec Chloride < 5.00 250 277 111 274 90-110 20 02.22.18 01:55 110 mg/kg X 1

Analytical Method: Inorganic Anions by EPA 300 E300P Prep Method:

3041865 Matrix: Soil Seq Number: Date Prep: 02.22.18 576503-003 S MS Sample Id: Parent Sample Id: 576503-003 MSD Sample Id: 576503-003 SD

Parent Spike MS MS Limits %RPD RPD Limit Units Analysis **MSD MSD** Flag **Parameter** Result Result Date Amount %Rec Result %Rec Chloride 66.2 244 353 118 321 104 90-110 20 mg/kg 02.22.18 13:01 X

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

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

LCS = Laboratory Control Sample A = Parent Result

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



QC Summary 576503

LT Environmental, Inc.

PLU Big Sinks 11 Federal

Analytical Method: Inorganic Anions by EPA 300

576503-004

3041865 Matrix: Soil

MS Sample Id: 576503-004 S

E300P Prep Method:

Date Prep: 02.22.18

MSD Sample Id: 576503-004 SD

Spike MS MS Limits %RPD RPD Limit Units Parent **MSD MSD** Analysis Flag **Parameter** Result Amount Result Date %Rec Result %Rec Chloride 90-110 02.22.18 14:25 42.3 252 345 120 330 114 4 20 mg/kg X

Analytical Method: TPH by SW8015 Mod

3041598

Matrix: Solid

TX1005P Prep Method:

02.18.18

Seq Number: MB Sample Id:

Seq Number:

Parent Sample Id:

7639461-1-BLK

LCS Sample Id: 7639461-1-BKS LCSD Sample Id: 7639461-1-BSD

Date Prep:

Flag

Flag

MB Spike LCS LCS %RPD RPD Limit Units LCSD LCSD Limits Analysis **Parameter** Result %Rec Date Result Amount Result %Rec Gasoline Range Hydrocarbons (GRO) 1000 1020 102 1010 101 70-135 35 02.19.18 00:05 <15.0 1 mg/kg Diesel Range Organics (DRO) 1000 893 89 866 70-135 3 35 02.19.18 00:05 <15.0 87 mg/kg

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec %Rec Flag Flag %Rec Flag Date 02.19.18 00:05 1-Chlorooctane 101 101 103 70-135 % 105 103 99 70-135 02.19.18 00:05 o-Terphenyl %

Analytical Method: TPH by SW8015 Mod

Seq Number: 3041598

Parent Sample Id:

Matrix: Soil

Prep Method:

TX1005P

Date Prep: 02.18.18

MS Sample Id: 576507-002 S MSD Sample Id: 576507-002 SD 576507-002

MS MS %RPD RPD Limit Units Spike Analysis Parent **MSD MSD** Limits **Parameter** Result Result %Rec Date Amount Result %Rec Gasoline Range Hydrocarbons (GRO) 997 02.19.18 01:27 <15.0 1070 107 1130 113 70-135 5 35 mg/kg 997 975 1080 70-135 10 35 02.19.18 01:27 Diesel Range Organics (DRO) <15.0 98 108 mg/kg

MS MS **MSD** Limits Units Analysis **MSD Surrogate** %Rec Flag %Rec Flag Date 02.19.18 01:27 113 118 1-Chlorooctane 70-135 % 02.19.18 01:27 o-Terphenyl 114 117 70-135 %

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

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

LCS = Laboratory Control Sample A = Parent Result

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

Flag



QC Summary 576503

LT Environmental, Inc.

PLU Big Sinks 11 Federal

Analytical Method: BTEX by EPA 8021B

3041453

Prep Method: SW5030B Matrix: Solid Date Prep:

Seq Number: 02.16.18 LCS Sample Id: 7639384-1-BKS LCSD Sample Id: 7639384-1-BSD MB Sample Id: 7639384-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.103	102	0.0823	82	70-130	22	35	mg/kg	02.16.18 16:13	
Toluene	< 0.00202	0.101	0.0956	95	0.0854	85	70-130	11	35	mg/kg	02.16.18 16:13	
Ethylbenzene	< 0.00202	0.101	0.0993	98	0.0887	89	71-129	11	35	mg/kg	02.16.18 16:13	
m,p-Xylenes	< 0.00403	0.202	0.194	96	0.173	86	70-135	11	35	mg/kg	02.16.18 16:13	
o-Xylene	< 0.00202	0.101	0.0972	96	0.0873	87	71-133	11	35	mg/kg	02.16.18 16:13	
Surrogate	MB %Rec	MB Flag			LCS Flag	LODE		D I	Limits	Units	Analysis Date	
1,4-Difluorobenzene	81		Ģ	92		97		8	30-120	%	02.16.18 16:13	
4-Bromofluorobenzene	115		1	11		115		8	30-120	%	02.16.18 16:13	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B Seq Number: 3041453 Matrix: Soil Date Prep: 02.16.18

MS Sample Id: 576500-001 S MSD Sample Id: 576500-001 SD Parent Sample Id: 576500-001

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	
Benzene	< 0.00199	0.0996	0.0844	85	0.0807	81	70-130	4	35	mg/kg	02.16.18 17:03	
Toluene	< 0.00199	0.0996	0.0913	92	0.0851	85	70-130	7	35	mg/kg	02.16.18 17:03	
Ethylbenzene	< 0.00199	0.0996	0.0955	96	0.0882	88	71-129	8	35	mg/kg	02.16.18 17:03	
m,p-Xylenes	< 0.00398	0.199	0.187	94	0.172	86	70-135	8	35	mg/kg	02.16.18 17:03	
o-Xylene	< 0.00199	0.0996	0.0946	95	0.0865	87	71-133	9	35	mg/kg	02.16.18 17:03	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		100		80-120	%	02.16.18 17:03
4-Bromofluorobenzene	111		119		80-120	%	02.16.18 17:03

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

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

LCS = Laboratory Control Sample A = Parent Result

C = MS/LCS Result E = MSD/LCSD Result $MS = Matrix \; Spike$ B = Spike Added D = MSD/LCSD % Rec

Received by OCD: 3/29/2025 2:47:50 PM



CHAIN OF CUSTODY

Stafford, Texas (281-240-4200) Dallas Texas (214-902-0300)

San Antonio, Texas (210-509-3334) Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

Released

_							www.x	enco	com						3	Xenco	Quote	0 W	Xenco Job #	76503
		T														5.70		Ani	lytical Information	Matrix Codes
Como	Client / Reporting Information			-		ect Info	rmatio	n												
LTE	Permian			Project Nar	me/Number:	LU	B:	0 5	ink	5]	1	Fe	der	10						W = Water
Comp	any Address:			Project Lec	cation:		-	9				-		-						S = Soil/Sed/Solid GW =Ground Water
	N. A Street Bldg 1 Suite 103 Midland	TX 79705			NM													+-		DW = Drinking Water
Email: Abak	er@itenv.com	Phone No: 432-704-5178		Invoice To:												-	10	300		P = Product SW = Surface water
Declar	t Contact:	170,162,511.5		XTO Energy - Kyle Littrell												8021	8015	8		SL = Sludge OW =Ocean/Sea Water
	Adrian Baker			PO Number	O Number: 30-015-37147											po	Method	Method		WI = Wipe
Sampl	ers's Name:			. Service 174	30.	01	5-	3	+1-	1 1						Method	eth	EPA N		O = Oil WW= Waste Water
5.5				Collection	n				Num	ber o	f pres	erve	d bot	les .		AN	A	曲		A = Air
No.	Field ID / Point of Co	flection	Sample Depth	Date	Time	Matrix	# of		aCH/Zn cetate	NOS	2804	HOM	PHSO4	ноз	ONE	Btex EPA	TPH EPA	Chloride		
1	SSOI		6"	2-13-18			1	T	23	1.	Ť	2	2	2	Ž	Š	5	S		Field Comments
2	SS02		1	1	16:20	1	1	+		+		-		-	4	^	1			
3	SS03				16:30	+	+	+	-	-		-			+	+	H	Н		
4	5504		+		16.40	1	1	+	-			-		\dashv	+	+	Н	1		
	SS 0.5		++-		1	-	+	-	-	-	H			-	+		Н	Ш		
5	5506		++-	\vdash	16.50	-	+	\vdash		-	Н			_	11	Н	Н	Ш		
6	SS 0 7		-		17:00	H	Н	-	-	-	Н			_	11			Ш	Temp: 3.0	IR ID:R-8
7	3508		1		17:10			-			Н			_	11	Ш			OE:10-6: -0.2	e°C)
8	3308		· V	V	17:20	₩	W	-							1	4	4	4	CF:(0-6: -0.3 (6-23: +)	0.2°C)
9	-		_		->			-	_						2.5		_		(0-25, T	emp: 3.7
10					_														Corrected	
7	Turnaround Time (Business days)				_		Data Del	iverab	le Inform	atten						- 3		100	North:	
닏	Same Day TAT	5 Day TAT			Lon	rel II Std	QC				Low	el IV	(Full	Data	Pkg /r	aw d	ata)		Sampler: Day	INV BUINS
Ш	Next Day EMERGENCY	7 Day TAT		1	Lev	el III Ste	d QC+ I	orms			TRE	RP Le	evel (V	6					API 30-01	r 271117
	2 Day EMERGENCY	Contract TAT			Lov	el 3 (CL	P Form	ns)			ust	/ RC	3 -411						2RP-388	
	3 Day EMERGENCY	STANDARD T	TAT		TRI	RP Chec	ktist	200				0100				_	_		ZNT-308	ř
	TAT Starts Day received by Lak					-		_				_					_			
		SAMPLE CUSTO		DOCUMENTE	D BELOW EA	CH TIME	SAMP	LES C	HANGE I	OSSE	SSION	LINC	LUDIN	6 co	URER	DELE	VERY		FED-EX / UPS: Tracking #	4 34 (1931) S
Rel	inquistred by Sampler:		2-14-1		Received	By:							hed B			-		Date Ti	IS 19 and Recovered By:	
Rel	inquished by:		Date Time		Received	22	On	1	7	_	Retin	quis	hed B	y:	_			2-14. Date Ti		AMER
3			100 F 100 25 / V		3 /	Sel	02	-6	1		4	1000	00007197	e01				2-141		
Reli	nquished by:		Date Time	5	Received	Ву:	6				Custo	ody S	Soal #			- 6	Prese		ere applicable On Içê	Cooler Yemp. Thermo. Corr. Factor
otice:	Notice: Signature of this document and relingue r expenses incurred by the Client if such lose:	ishment of samples const	filutes a valid po	urchase order	from client con	mnany to	Yanco :	to office	Mas and	n the				-tar			-		IX.	district samples and shall not assume any responsibility for any



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 02/14/2018 06:00:00 PM

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

Work Order #: 576503

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		3.7
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	es?	N/A
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinqu	uished/ received?	Yes
#10 Chain of Custody agrees with sample	e labels/matrix?	Yes
#11 Container label(s) legible and intact	?	Yes
#12 Samples in proper container/ bottle?		Yes
#13 Samples properly preserved?		Yes
#14 Sample container(s) intact?		Yes
#15 Sufficient sample amount for indicat	ed test(s)?	Yes
#16 All samples received within hold time	e?	Yes
#17 Subcontract of sample(s)?		No
#18 Water VOC samples have zero head	dspace?	N/A
* Must be completed for after-hours de Analyst:	livery of samples prior to placing in PH Device/Lot#:	the refrigerator
Checklist completed by:	Connie Hernandez	Date: 02/15/2018
Checklist reviewed by:	Jessica Kramer	Date: 02/15/2018

Analytical Report 619853

for

LT Environmental, Inc.

Project Manager: Adrian Baker
PLU Big Sinks 11 Federal Battery
012918036
08-APR-19

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco-Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429), North Carolina (483) Xenco-Lakeland: Florida (E84098)





08-APR-19

Project Manager: Adrian Baker LT Environmental, Inc. 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): 619853

PLU Big Sinks 11 Federal Battery

Project Address: ---

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 619853. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 619853 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Kalei Stout

Midland Laboratory Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW01	S	03-29-19 15:00	0 - 4 ft	619853-001
SW02	S	03-29-19 15:10	0 - 4 ft	619853-002
SW03	S	03-29-19 15:20	0 - 4 ft	619853-003
SW04	S	03-29-19 15:30	0 - 3 ft	619853-004
SW05	S	03-29-19 15:40	0 - 3 ft	619853-005
SW06	S	03-29-19 15:45	0 - 4 ft	619853-006
SW07	S	03-29-19 15:55	0 - 4 ft	619853-007
FS01	S	03-29-19 16:00	3 ft	619853-008
FS02	S	03-29-19 16:10	4 ft	619853-009
FS03	S	03-29-19 16:15	4 ft	619853-010
FS04	S	03-29-19 16:20	4 ft	619853-011
FS05	S	03-29-19 16:30	5 ft	619853-012
FS06	S	03-29-19 16:35	5 ft	619853-013
FS07	S	03-29-19 16:40	5 ft	619853-014
FS08	S	03-29-19 16:45	5 ft	619853-015
FS09	S	03-29-19 16:50	3 ft	619853-016
FS10	S	03-29-19 16:55	3 ft	619853-017
FS11	S	03-29-19 17:00	1 ft	619853-018
FS12	S	03-29-19 17:10	1 ft	619853-019
FS13	S	03-29-19 17:20	1 ft	619853-020

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: PLU Big Sinks 11 Federal Battery

 Project ID:
 012918036
 Report Date:
 08-APR-19

 Work Order Number(s):
 619853
 Date Received:
 04/03/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3084841 BTEX by EPA 8021B

Lab Sample ID 619853-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Toluene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 619853-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 619853-004,619853-019,619853-017,619853-008.



012918036

Adrian Baker

Project Id:

Project Location:

Contact:

Total TPH

Total GRO-DRO

Certificate of Analysis Summary 619853

LT Environmental, Inc., Arvada, CO

Page 218 of 437

Project Name: PLU Big Sinks 11 Federal Battery

Date Received in Lab: Wed Apr-03-19 11:25 am

Report Date: 08-APR-19 Project Manager: Kalei Stout

	Lab Id:	619853-	001	619853-0	002	619853-	003	619853-0	004	619853-	005	619853-	006
Analusia Dogunatad	Field Id:	SW01	1	SW02	2	SW03	3	SW04	ļ.	SW05	5	SW06	5
Analysis Requested	Depth:	0-4 ft	t	0-4 ft		0-4 ft	:	0-3 ft		0-3 ft	t	0-4 ft	:
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-29-19	15:00	Mar-29-19	15:10	Mar-29-19	15:20	Mar-29-19	15:30	Mar-29-19	15:40	Mar-29-19	15:45
BTEX by EPA 8021B	Extracted:	Apr-05-19	15:00	Apr-05-19	15:00	Apr-05-19	15:00	Apr-05-19 15:00		Apr-05-19	15:00	Apr-05-19	15:00
	Analyzed:	Apr-05-19	18:16	Apr-05-19	18:35	Apr-05-19	18:55	Apr-05-19	19:14	Apr-05-19	19:33	Apr-05-19	19:52
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene	·	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200
Toluene		0.00266	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202	0.00286	0.00200	< 0.00200	0.00200
Ethylbenzene		< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200
m,p-Xylenes		0.00566	0.00398	< 0.00402	0.00402	0.00528	0.00398	< 0.00403	0.00403	0.0230	0.00399	< 0.00399	0.00399
o-Xylene		0.00258	0.00199	< 0.00201	0.00201	0.00270	0.00199	< 0.00202	0.00202	0.0138	0.00200	< 0.00200	0.00200
Total Xylenes		0.00824	0.00199	< 0.00201	0.00201	0.00798	0.00199	< 0.00202	0.00202	0.0368	0.00200	< 0.00200	0.00200
Total BTEX		0.0109	0.00199	< 0.00201	0.00201	0.00798	0.00199	< 0.00202	0.00202	0.0397	0.00200	< 0.00200	0.00200
Inorganic Anions by EPA 300	Extracted:	Apr-03-19	16:30	Apr-03-19	16:30	Apr-03-19 16:30		Apr-03-19 16:30		Apr-03-19 16:30		Apr-03-19	16:30
	Analyzed:	Apr-03-19	23:19	Apr-03-19	23:29	Apr-03-19 23:58		Apr-04-19 00:08		Apr-04-19	10:27	Apr-04-19	10:37
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		64.5	24.8	70.2	49.5	9.58	5.03	44.9	24.8	5.19	4.95	13.6	4.95
TPH by SW8015 Mod	Extracted:	Apr-04-19	14:00	Apr-04-19	14:00	Apr-04-19	14:00	Apr-04-19	14:00	Apr-04-19	14:00	Apr-04-19	14:00
	Analyzed:	Apr-04-19	Apr-04-19 21:10		22:09	Apr-04-19	22:29	Apr-04-19	22:49	Apr-04-19	23:09	Apr-04-19	23:28
	Units/RL:	mg/kg RL		mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		20.0 15.0		<14.9	14.9	19.9	15.0	<15.0	15.0	66.5	15.0	<15.0	15.0
Diesel Range Organics (DRO)		792 15.0		404	14.9	629	15.0	56.6	15.0	838	15.0	221	15.0
Motor Oil Range Hydrocarbons (MRO)		128	15.0	79.2	14.9	92.8	15.0	<15.0	15.0	123	15.0	28.4	15.0

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

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

940

812

15.0

15.0

1030

905

15.0

15.0

56.6

56.6

15.0

15.0

249

221

15.0

15.0

483

404

14.9

14.9

742

649

15.0

15.0



012918036

Adrian Baker

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 619853

LT Environmental, Inc., Arvada, CO

Project Name: PLU Big Sinks 11 Federal Battery

Report Date: 08-APR-19

Date Received in Lab: Wed Apr-03-19 11:25 am

Project Manager: Kalei Stout

	Lab Id:	619853-	007	619853-	800	619853-0	009	619853-	010	619853-0	011	619853-0	012
Analysis Requested	Field Id:	SW07	7	FS01		FS02		FS03		FS04		FS05	
Analysis Requesieu	Depth:	0-4 ft	t	3- ft		4- ft		4- ft		4- ft		5- ft	
	Matrix:	SOIL		SOIL	,	SOIL	,	SOIL	,	SOIL	,	SOIL	,
	Sampled:	Mar-29-19	15:55	Mar-29-19	16:00	Mar-29-19	Mar-29-19 16:10		16:15	Mar-29-19 16:20		Mar-29-19	16:30
BTEX by EPA 8021B	Extracted:	Apr-05-19	15:00	Apr-05-19	15:00	Apr-05-19 15:00		Apr-05-19 15:00		Apr-05-19 15:00		Apr-05-19	15:00
	Analyzed:	Apr-05-19	20:12	Apr-05-19	20:31	Apr-05-19	20:50	Apr-05-19	21:09	Apr-05-19	22:24	Apr-05-19	22:44
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00198	0.00198
Toluene		0.0108	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00198	0.00198
Ethylbenzene		0.00865	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00198	0.00198
m,p-Xylenes		0.0808	0.00402	0.0112	0.00401	< 0.00398	0.00398	< 0.00398	0.00398	< 0.00404	0.00404	< 0.00397	0.00397
o-Xylene		0.0378	0.00201	0.00497	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00198	0.00198
Total Xylenes		0.119	0.00201	0.0162	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00198	0.00198
Total BTEX		0.138	0.00201	0.0162	0.00200	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00198	0.00198
Inorganic Anions by EPA 300	Extracted:	Apr-03-19	16:30	Apr-03-19 16:30		Apr-03-19	16:30	Apr-03-19	17:00	Apr-03-19	17:00	Apr-03-19	17:00
	Analyzed:	Apr-04-19	10:47	Apr-04-19	10:57	Apr-04-19 11:06		Apr-04-19 11:36		Apr-04-19 02:35		Apr-04-19	02:45
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		23.8	4.99	16.8	5.00	25.6	4.97	33.0	4.95	70.9	24.9	7.51	4.99
TPH by SW8015 Mod	Extracted:	Apr-04-19	14:00	Apr-04-19	14:00	Apr-04-19	14:00	Apr-04-19	14:00	Apr-04-19	14:00	Apr-04-19	14:00
	Analyzed:	Apr-05-19	06:27	Apr-05-19	00:08	Apr-05-19	00:27	Apr-05-19	00:47	Apr-05-19	01:45	Apr-05-19	02:04
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)	·	127	127 14.9		15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		1820	1820 14.9		15.0	210	15.0	425	14.9	375	15.0	26.8	15.0
Motor Oil Range Hydrocarbons (MRO)		259	14.9	57.5	15.0	35.1	15.0	67.4	14.9	58.9	15.0	<15.0	15.0
Total TPH		2210	14.9	347	15.0	245	15.0	492	14.9	434	15.0	26.8	15.0
Total GRO-DRO		1950	14.9	289	15.0	210	15.0	425	14.9	375	15.0	26.8	15.0

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

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



012918036

Adrian Baker

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 619853

LT Environmental, Inc., Arvada, CO

Project Name: PLU Big Sinks 11 Federal Battery

Date Received in Lab: Wed Apr-03-19 11:25 am

Report Date: 08-APR-19 Project Manager: Kalei Stout

	Lab Id:	619853-0	013	619853-0	014	619853-	015	619853-	016	619853-	017	619853-0	018
Analusia Daguastad	Field Id:	FS06		FS07		FS08		FS09		FS10)	FS11	
Analysis Requested	Depth:	5- ft		5- ft		5- ft		3- ft		3- ft		1- ft	
	Matrix:	SOIL		SOIL	,	SOIL	,	SOIL	,	SOIL	_	SOIL	,
	Sampled:	Mar-29-19	16:35	Mar-29-19	16:40	Mar-29-19	16:45	Mar-29-19	16:50	Mar-29-19	16:55	Mar-29-19	17:00
BTEX by EPA 8021B	Extracted:	Apr-05-19	15:00	Apr-05-19	15:00	Apr-05-19	15:00	Apr-05-19	15:00	Apr-05-19	15:00	Apr-05-19	15:00
	Analyzed:	Apr-05-19	23:03	Apr-05-19	23:22	Apr-05-19	23:41	Apr-06-19	00:00	Apr-06-19	00:19	Apr-06-19	00:39
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199
Toluene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	0.00816	0.00202	< 0.00199	0.00199
Ethylbenzene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	0.0711	0.00202	< 0.00199	0.00199
m,p-Xylenes		< 0.00402	0.00402	< 0.00398	0.00398	< 0.00402	0.00402	< 0.00398	0.00398	0.314	0.00403	< 0.00398	0.00398
o-Xylene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	0.205	0.00202	< 0.00199	0.00199
Total Xylenes		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	0.519	0.00202	< 0.00199	0.00199
Total BTEX		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	0.598	0.00202	< 0.00199	0.00199
Inorganic Anions by EPA 300	Extracted:	Apr-03-19	17:00	Apr-03-19 17:00		Apr-03-19	17:00	Apr-03-19	17:00	Apr-03-19	17:00	Apr-03-19	17:00
	Analyzed:	Apr-04-19	11:46	Apr-04-19	11:55	Apr-04-19 12:05		Apr-04-19 12:15		Apr-04-19	12:25	Apr-04-19	12:35
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride	·	6.85	5.04	7.07	4.96	5.42	5.01	14.0	4.98	7.95	4.97	21.8	4.99
TPH by SW8015 Mod	Extracted:	Apr-04-19	14:00	Apr-04-19	14:00	Apr-04-19	14:00	Apr-04-19	14:00	Apr-04-19	14:00	Apr-04-19	14:00
	Analyzed:	Apr-05-19	02:24	Apr-05-19	02:44	Apr-05-19	03:03	Apr-05-19	03:23	Apr-05-19	03:42	Apr-05-19	04:01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)	·	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	410	15.0	<14.9	14.9
Diesel Range Organics (DRO)		37.5	15.0	27.3	15.0	28.2	15.0	155	15.0	1620	15.0	34.6	14.9
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	19.2	15.0	165	15.0	<14.9	14.9
Total TPH		37.5	37.5 15.0		15.0	28.2	15.0	174	15.0	2200	15.0	34.6	14.9
Total GRO-DRO		37.5	15.0	27.3	15.0	28.2	15.0	155	15.0	2030	15.0	34.6	14.9

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Certificate of Analysis Summary 619853

LT Environmental, Inc., Arvada, CO

Project Name: PLU Big Sinks 11 Federal Battery



Project Id: 012918036 Contact: Adrian Baker

Project Location: --

Date Received in Lab: Wed Apr-03-19 11:25 am

Report Date: 08-APR-19 **Project Manager:** Kalei Stout

						 1		
	Lab Id:	619853-0	19	619853-0	020			
Analysis Requested	Field Id:	FS12		FS13				
Analysis Requesieu	Depth:	1- ft		1- ft				
	Matrix:	SOIL		SOIL				
	Sampled:	Mar-29-19 1	7:10	Mar-29-19	17:20			
BTEX by EPA 8021B	Extracted:	Apr-05-19 1	5:00	Apr-05-19	15:00			
	Analyzed:	Apr-06-19 0	0:58	Apr-06-19	01:17			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Benzene		< 0.00200	0.00200	< 0.00201	0.00201			
Toluene		< 0.00200	0.00200	< 0.00201	0.00201			
Ethylbenzene		< 0.00200	0.00200	< 0.00201	0.00201			
m,p-Xylenes		< 0.00400	0.00400	< 0.00402	0.00402			
o-Xylene		< 0.00200	0.00200	< 0.00201	0.00201			
Total Xylenes		< 0.00200	0.00200	< 0.00201	0.00201			
Total BTEX		< 0.00200	0.00200	< 0.00201	0.00201			
Inorganic Anions by EPA 300	Extracted:	Apr-03-19 1	7:00	Apr-03-19	17:00			
	Analyzed:	Apr-04-19 0	4:42	Apr-04-19	04:52			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Chloride		30.5	25.0	27.3	24.9			
TPH by SW8015 Mod	Extracted:	Apr-04-19 1	4:00	Apr-04-19	14:00			
	Analyzed:	Apr-05-19 0	4:21	Apr-05-19	04:40			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0			
Diesel Range Organics (DRO)		60.2	15.0	69.3	15.0			
Motor Oil Range Hydrocarbons (MRO)	(AO) <15.0 15.0		<15.0	15.0				
Total TPH			15.0	69.3	15.0			
Total GRO-DRO		60.2	15.0	69.3	15.0			

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

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Laeri Stort

Kalei Stout Midland Laboratory Director





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Sample Id: SW01 Matrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-001 Date Collected: 03.29.19 15.00 Sample Depth: 0 - 4 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

CHE % Moisture:

Analyst: CHE Date Prep: 04.03.19 16.30 Basis: Wet Weight

Seq Number: 3084528

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 64.5
 24.8
 mg/kg
 04.03.19 23.19
 5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 04.04.19 14.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	20.0	15.0		mg/kg	04.04.19 21.10		1
Diesel Range Organics (DRO)	C10C28DRO	792	15.0		mg/kg	04.04.19 21.10		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	128	15.0		mg/kg	04.04.19 21.10		1
Total TPH	PHC635	940	15.0		mg/kg	04.04.19 21.10		1
Total GRO-DRO	PHC628	812	15.0		mg/kg	04.04.19 21.10		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	04.04.19 21.10		
o-Terphenyl		84-15-1	107	%	70-135	04.04.19 21.10		



Lab Sample Id: 619853-001

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Matrix: Soil Date Received:04.03.19 11.25 Date Collected: 03.29.19 15.00

Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

SW01

Prep Method: SW5030B

Tech: SCM % Moisture:

SCM Analyst:

Sample Id:

04.05.19 15.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.05.19 18.16	U	1
Toluene	108-88-3	0.00266	0.00199		mg/kg	04.05.19 18.16		1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.05.19 18.16	U	1
m,p-Xylenes	179601-23-1	0.00566	0.00398		mg/kg	04.05.19 18.16		1
o-Xylene	95-47-6	0.00258	0.00199		mg/kg	04.05.19 18.16		1
Total Xylenes	1330-20-7	0.00824	0.00199		mg/kg	04.05.19 18.16		1
Total BTEX		0.0109	0.00199		mg/kg	04.05.19 18.16		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	115	%	70-130	04.05.19 18.16		
1,4-Difluorobenzene		540-36-3	96	%	70-130	04.05.19 18.16		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Sample Id: SW02

Lab Sample Id: 619853-002

Matrix: Soil
Date Collected: 03.29.19 15.10

Date Received:04.03.19 11.25

Sample Depth: 0 - 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P % Moisture:

Tech: CHE

Analyst:

CHE

Date Prep: 04.03.19 16.30

Basis:

Wet Weight

Seq Number: 3084528

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	70.2	49.5	mg/kg	04.03.19 23.29		10

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:

ARM

Analyst: ARM

o-Terphenyl

Seq Number: 3084705

Date Prep: 04.04.19 14.00

100

Basis:

04.04.19 22.09

70-135

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	04.04.19 22.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	404	14.9		mg/kg	04.04.19 22.09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	79.2	14.9		mg/kg	04.04.19 22.09		1
Total TPH	PHC635	483	14.9		mg/kg	04.04.19 22.09		1
Total GRO-DRO	PHC628	404	14.9		mg/kg	04.04.19 22.09		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	90	%	70-135	04.04.19 22.09		

84-15-1





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Soil

04.05.19 15.00

Matrix:

Date Prep:

Date Received:04.03.19 11.25

Lab Sample Id: 619853-002 Date Collected: 03.29.19 15.10

Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

SW02

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Sample Id:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.05.19 18.35	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.05.19 18.35	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.05.19 18.35	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.05.19 18.35	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.05.19 18.35	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	04.05.19 18.35	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.05.19 18.35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	70-130	04.05.19 18.35		
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.05.19 18.35		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Matrix: Sample Id: **SW03** Soil

Date Collected: 03.29.19 15.20 Sample Depth: 0 - 4 ft

Lab Sample Id: 619853-003

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

% Moisture:

Date Received:04.03.19 11.25

Prep Method: TX1005P

% Moisture:

CHE Analyst: Basis: Wet Weight Date Prep: 04.03.19 16.30

Seq Number: 3084528

CHE

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.58	5.03	mg/kg	04.03.19 23.58		1

Analytical Method: TPH by SW8015 Mod

ARMTech:

ARM Analyst: 04.04.19 14.00 Basis: Wet Weight Date Prep:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	19.9	15.0		mg/kg	04.04.19 22.29		1
Diesel Range Organics (DRO)	C10C28DRO	629	15.0		mg/kg	04.04.19 22.29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	92.8	15.0		mg/kg	04.04.19 22.29		1
Total TPH	PHC635	742	15.0		mg/kg	04.04.19 22.29		1
Total GRO-DRO	PHC628	649	15.0		mg/kg	04.04.19 22.29		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	04.04.19 22.29		
o-Terphenyl		84-15-1	113	%	70-135	04.04.19 22.29		



SW03

SCM

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Soil

Lab Sample Id: 619853-003 Date Collected: 03.29.19 15.20

Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B Prep M

Prep Method: SW5030B

Date Received:04.03.19 11.25

% Moisture:

Analyst: SCM Date Prep: 04.05.19 15.00 Basis: Wet Weight

Matrix:

Seq Number: 3084841

Sample Id:

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.05.19 18.55	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.05.19 18.55	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.05.19 18.55	U	1
m,p-Xylenes	179601-23-1	0.00528	0.00398		mg/kg	04.05.19 18.55		1
o-Xylene	95-47-6	0.00270	0.00199		mg/kg	04.05.19 18.55		1
Total Xylenes	1330-20-7	0.00798	0.00199		mg/kg	04.05.19 18.55		1
Total BTEX		0.00798	0.00199		mg/kg	04.05.19 18.55		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	106	%	70-130	04.05.19 18.55		
4-Bromofluorobenzene		460-00-4	108	%	70-130	04.05.19 18.55		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Matrix: Sample Id: **SW04** Soil

Date Received:04.03.19 11.25

Date Collected: 03.29.19 15.30

Sample Depth: 0 - 3 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

CHE

Lab Sample Id: 619853-004

% Moisture:

Tech: CHE Analyst:

Date Prep: 04.03.19 16.30 Basis: Wet Weight

Seq Number: 3084528

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.9	24.8	mg/kg	04.04.19 00.08		

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

04.04.19 14.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.04.19 22.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	56.6	15.0		mg/kg	04.04.19 22.49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	04.04.19 22.49	U	1
Total TPH	PHC635	56.6	15.0		mg/kg	04.04.19 22.49		1
Total GRO-DRO	PHC628	56.6	15.0		mg/kg	04.04.19 22.49		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	04.04.19 22.49		
o-Terphenyl		84-15-1	92	%	70-135	04.04.19 22.49		



SW04

SCM

Analytical Method: BTEX by EPA 8021B

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Matrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-004 Date Collected: 03.29.19 15.30 Sample Depth: 0 - 3 ft

Prep Method: SW5030B

% Moisture:

Analyst: SCM Date Prep: 04.05.19 15.00 Basis: Wet Weight

Seq Number: 3084841

Sample Id:

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.05.19 19.14	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.05.19 19.14	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.05.19 19.14	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	04.05.19 19.14	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.05.19 19.14	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.05.19 19.14	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.05.19 19.14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	137	%	70-130	04.05.19 19.14	**	
1.4-Difluorobenzene		540-36-3	99	%	70-130	04.05.19 19.14		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Soil

Sample Id: SW05 Matrix:

Date Received:04.03.19 11.25

Lab Sample Id: 619853-005 Date Collected: 03.29.19 15.40

Sample Depth: 0 - 3 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

% Moisture:

Tech: CHE

Analyst:

Date Prep: 04.03.19 16.30 Basis:

oisture:

Wet Weight

Seq Number: 3084528

CHE

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.19	4.95	mg/kg	04.04.19 10.27		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:
Analyst:

ARM ARM

Date Prep: 04.04.19 14.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	66.5	15.0		mg/kg	04.04.19 23.09		1
Diesel Range Organics (DRO)	C10C28DRO	838	15.0		mg/kg	04.04.19 23.09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	123	15.0		mg/kg	04.04.19 23.09		1
Total TPH	PHC635	1030	15.0		mg/kg	04.04.19 23.09		1
Total GRO-DRO	PHC628	905	15.0		mg/kg	04.04.19 23.09		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	04.04.19 23.09		
o-Terphenyl		84-15-1	106	%	70-135	04.04.19 23.09		



SW05

SCM

Analytical Method: BTEX by EPA 8021B

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Soil

04.05.19 15.00

Sample Depth: 0 - 3 ft

Lab Sample Id: 619853-005 Date Collected: 03.29.19 15.40

Prep Method: SW5030B

Date Received:04.03.19 11.25

% Moisture:

Tech: SCM

Matrix:

Date Prep:

Basis: Wet Weight

Seq Number: 3084841

Sample Id:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.05.19 19.33	U	1
Toluene	108-88-3	0.00286	0.00200		mg/kg	04.05.19 19.33		1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.05.19 19.33	U	1
m,p-Xylenes	179601-23-1	0.0230	0.00399		mg/kg	04.05.19 19.33		1
o-Xylene	95-47-6	0.0138	0.00200		mg/kg	04.05.19 19.33		1
Total Xylenes	1330-20-7	0.0368	0.00200		mg/kg	04.05.19 19.33		1
Total BTEX		0.0397	0.00200		mg/kg	04.05.19 19.33		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	117	%	70-130	04.05.19 19.33		
1,4-Difluorobenzene		540-36-3	99	%	70-130	04.05.19 19.33		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Matrix: Sample Id: **SW06** Soil

Date Received:04.03.19 11.25

Date Collected: 03.29.19 15.45

Sample Depth: 0 - 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

CHE

Lab Sample Id: 619853-006

% Moisture:

Tech: CHE

Analyst:

Date Prep: 04.03.19 16.30 Basis:

Wet Weight

Seq Number: 3084528

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.6	4.95	mg/kg	04.04.19 10.37		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

04.04.19 14.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.04.19 23.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	221	15.0		mg/kg	04.04.19 23.28		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	28.4	15.0		mg/kg	04.04.19 23.28		1
Total TPH	PHC635	249	15.0		mg/kg	04.04.19 23.28		1
Total GRO-DRO	PHC628	221	15.0		mg/kg	04.04.19 23.28		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	04.04.19 23.28		
o-Terphenyl		84-15-1	97	%	70-135	04.04.19 23.28		



Lab Sample Id: 619853-006

SW06

Analytical Method: BTEX by EPA 8021B

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Soil

Date Received:04.03.19 11.25

Date Collected: 03.29.19 15.45 Sample Depth: 0 - 4 ft

Prep Method: SW5030B

% Moisture:

Tech: SCM SCM Analyst: 04.05.19 15.00 Basis: Wet Weight Date Prep:

Matrix:

Seq Number: 3084841

Sample Id:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.05.19 19.52	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.05.19 19.52	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.05.19 19.52	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	04.05.19 19.52	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.05.19 19.52	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.05.19 19.52	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.05.19 19.52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	106	%	70-130	04.05.19 19.52		
4-Bromofluorobenzene		460-00-4	108	%	70-130	04.05.19 19.52		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Sample Id: SW07 Matrix: Soil

Matrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-007 Date Collected: 03.29.19 15.55 Sample Depth: 0 - 4 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

% Moisture:

Analyst: CHE Date Prep: 04.03.19 16.30 Basis: Wet Weight

Seq Number: 3084528

CHE

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.8	4.99	mg/kg	04.04.19 10.47		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 04.04.19 14.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	127	14.9		mg/kg	04.05.19 06.27		1
Diesel Range Organics (DRO)	C10C28DRO	1820	14.9		mg/kg	04.05.19 06.27		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	259	14.9		mg/kg	04.05.19 06.27		1
Total TPH	PHC635	2210	14.9		mg/kg	04.05.19 06.27		1
Total GRO-DRO	PHC628	1950	14.9		mg/kg	04.05.19 06.27		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	04.05.19 06.27		
o-Terphenyl		84-15-1	125	%	70-135	04.05.19 06.27		



Lab Sample Id: 619853-007

SW07

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Soil

04.05.19 15.00

Date Received:04.03.19 11.25

Date Collected: 03.29.19 15.55 Sample Depth: 0 - 4 ft

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

Date Prep:

Matrix:

% Moisture:

Tech: SCMSCM

Basis: Wet Weight

Seq Number: 3084841

Sample Id:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.05.19 20.12	U	1
Toluene	108-88-3	0.0108	0.00201		mg/kg	04.05.19 20.12		1
Ethylbenzene	100-41-4	0.00865	0.00201		mg/kg	04.05.19 20.12		1
m,p-Xylenes	179601-23-1	0.0808	0.00402		mg/kg	04.05.19 20.12		1
o-Xylene	95-47-6	0.0378	0.00201		mg/kg	04.05.19 20.12		1
Total Xylenes	1330-20-7	0.119	0.00201		mg/kg	04.05.19 20.12		1
Total BTEX		0.138	0.00201		mg/kg	04.05.19 20.12		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	04.05.19 20.12		
4-Bromofluorobenzene		460-00-4	120	%	70-130	04.05.19 20.12		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Sample Id: FS01 Matrix:

Lab Sample Id: 619853-008

Matrix: Soil

Date Received:04.03.19 11.25

Date Collected: 03.29.19 16.00 Sample Depth: 3 ft

04.03.19 16.30

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P % Moisture:

Tech: CHE

Analyst: CHE

Date Prep:

Basis:

Wet Weight

Seq Number: 3084528

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.8	5.00	mg/kg	04.04.19 10.57		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

04.05.19 00.08

70-135

% Moisture:

Tech:

ARM

Analyst: ARM Seq Number: 3084705

o-Terphenyl

Date Prep: 04.04.19 14.00

95

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.05.19 00.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	289	15.0		mg/kg	04.05.19 00.08		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	57.5	15.0		mg/kg	04.05.19 00.08		1
Total TPH	PHC635	347	15.0		mg/kg	04.05.19 00.08		1
Total GRO-DRO	PHC628	289	15.0		mg/kg	04.05.19 00.08		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	04.05.19 00.08		

84-15-1



Lab Sample Id: 619853-008

FS01

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Soil

Matrix: Date Collected: 03.29.19 16.00 Date Received:04.03.19 11.25

Sample Depth: 3 ft

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

% Moisture:

Tech: SCMSCM Analyst: 04.05.19 15.00 Basis: Wet Weight Date Prep:

Seq Number: 3084841

Sample Id:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.05.19 20.31	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.05.19 20.31	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.05.19 20.31	U	1
m,p-Xylenes	179601-23-1	0.0112	0.00401		mg/kg	04.05.19 20.31		1
o-Xylene	95-47-6	0.00497	0.00200		mg/kg	04.05.19 20.31		1
Total Xylenes	1330-20-7	0.0162	0.00200		mg/kg	04.05.19 20.31		1
Total BTEX		0.0162	0.00200		mg/kg	04.05.19 20.31		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	132	%	70-130	04.05.19 20.31	**	
1,4-Difluorobenzene		540-36-3	116	%	70-130	04.05.19 20.31		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Sample Id: FS02 Matrix:

Matrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-009 Date Collected: 03.29.19 16.10

Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Basis:

Seq Number: 3084528

Analyst:

CHE

Date Prep: 04.03.19 16.30

Wet Weight

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 25.6
 4.97
 mg/kg
 04.04.19 11.06
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:

Analyst:

ARM ARM

Date Prep: 04.04.19 14.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.05.19 00.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	210	15.0		mg/kg	04.05.19 00.27		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	35.1	15.0		mg/kg	04.05.19 00.27		1
Total TPH	PHC635	245	15.0		mg/kg	04.05.19 00.27		1
Total GRO-DRO	PHC628	210	15.0		mg/kg	04.05.19 00.27		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	04.05.19 00.27		
o-Terphenyl		84-15-1	96	%	70-135	04.05.19 00.27		



Lab Sample Id: 619853-009

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Matrix: Soil Date Received:04.03.19 11.25 Date Collected: 03.29.19 16.10 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

FS02

Prep Method: SW5030B

Tech: SCM % Moisture:

SCM

Sample Id:

Analyst:

04.05.19 15.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.05.19 20.50	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.05.19 20.50	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.05.19 20.50	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.05.19 20.50	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.05.19 20.50	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.05.19 20.50	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.05.19 20.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	70-130	04.05.19 20.50		
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.05.19 20.50		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Soil

Matrix: Sample Id: **FS03**

Date Collected: 03.29.19 16.15

Date Received:04.03.19 11.25

Lab Sample Id: 619853-010

Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE % Moisture:

CHE Analyst:

Date Prep: 04.03.19 17.00 Basis:

Wet Weight

Seq Number: 3084530

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.0	4.95	mg/kg	04.04.19 11.36		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

04.04.19 14.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	04.05.19 00.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	425	14.9		mg/kg	04.05.19 00.47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	67.4	14.9		mg/kg	04.05.19 00.47		1
Total TPH	PHC635	492	14.9		mg/kg	04.05.19 00.47		1
Total GRO-DRO	PHC628	425	14.9		mg/kg	04.05.19 00.47		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	04.05.19 00.47		
o-Terphenyl		84-15-1	100	%	70-135	04.05.19 00.47		



FS03

SCM

Analytical Method: BTEX by EPA 8021B

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

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Matrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-010 Date Collected: 03.29.19 16.15 Sample Depth: 4 ft

Prep Method: SW5030B

% Moisture:

Analyst: SCM Date Prep: 04.05.19 15.00 Basis: Wet Weight

Seq Number: 3084841

Sample Id:

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.05.19 21.09	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.05.19 21.09	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.05.19 21.09	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.05.19 21.09	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.05.19 21.09	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.05.19 21.09	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.05.19 21.09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.05.19 21.09		
4-Bromofluorobenzene		460-00-4	104	%	70-130	04.05.19 21.09		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Sample Id: FS04 Matrix:

Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-011 Date Collected: 03.29.19 16.20

Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.19 17.00

Basis:

Wet Weight

Seq Number: 3084530

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	70.9	24.9	mg/kg	04.04.19 02.35		

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 04.04.19 14.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.05.19 01.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	375	15.0		mg/kg	04.05.19 01.45		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	58.9	15.0		mg/kg	04.05.19 01.45		1
Total TPH	PHC635	434	15.0		mg/kg	04.05.19 01.45		1
Total GRO-DRO	PHC628	375	15.0		mg/kg	04.05.19 01.45		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	04.05.19 01.45		
o-Terphenyl		84-15-1	100	%	70-135	04.05.19 01.45		



FS04

SCM

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

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Matrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-011 Date Collected: 03.29.19 16.20 Sample Depth: 4 ft

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

% Moisture:

Analyst: SCM Date Prep: 04.05.19 15.00 Basis: Wet Weight

Seq Number: 3084841

Sample Id:

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.05.19 22.24	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.05.19 22.24	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.05.19 22.24	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	04.05.19 22.24	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.05.19 22.24	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.05.19 22.24	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.05.19 22.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	122	%	70-130	04.05.19 22.24		
1.4-Difluorobenzene		540-36-3	97	%	70-130	04.05.19 22.24		



Lab Sample Id: 619853-012

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Soil

Matrix: Sample Id: **FS05**

Date Received:04.03.19 11.25

Date Collected: 03.29.19 16.30

Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

CHE

% Moisture:

Tech: CHE Analyst:

Date Prep:

04.03.19 17.00

Basis:

Wet Weight

Seq Number: 3084530

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.51	4.99	mg/kg	04.04.19 02.45		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

04.04.19 14.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.05.19 02.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	26.8	15.0		mg/kg	04.05.19 02.04		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	04.05.19 02.04	U	1
Total TPH	PHC635	26.8	15.0		mg/kg	04.05.19 02.04		1
Total GRO-DRO	PHC628	26.8	15.0		mg/kg	04.05.19 02.04		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	90	%	70-135	04.05.19 02.04		
o-Terphenyl		84-15-1	91	%	70-135	04.05.19 02.04		



FS05

SCM

Analytical Method: BTEX by EPA 8021B

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

04.05.19 15.00

Matrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-012 Date Collected: 03.29.19 16.30

Prep Method: SW5030B

Sample Depth: 5 ft

Tech: SCM% Moisture:

Date Prep:

Basis: Wet Weight

Seq Number: 3084841

Sample Id:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	04.05.19 22.44	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	04.05.19 22.44	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	04.05.19 22.44	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	04.05.19 22.44	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	04.05.19 22.44	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	04.05.19 22.44	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	04.05.19 22.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.05.19 22.44		
4-Bromofluorobenzene		460-00-4	104	%	70-130	04.05.19 22.44		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

04.03.19 17.00

Sample Id: **FS06** Matrix: Soil

Matrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-013 Date Collected: 03.29.19 16.35 Sample Depth: 5 ft

Date Prep:

Prep Method: E300P

Wet Weight

Tech: CHE % Moisture:

% Moisture:
Basis:

Seq Number: 3084530

Analyst:

CHE

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 6.85
 5.04
 mg/kg
 04.04.19 11.46
 1

Analytical Method: TPH by SW8015 Mod

ARM

Analytical Method: Inorganic Anions by EPA 300

Prep Method: TX1005P

% Moisture:

Tech: ARM

Analyst:

Date Prep: 04.04.19 14.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.05.19 02.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	37.5	15.0		mg/kg	04.05.19 02.24		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	04.05.19 02.24	U	1
Total TPH	PHC635	37.5	15.0		mg/kg	04.05.19 02.24		1
Total GRO-DRO	PHC628	37.5	15.0		mg/kg	04.05.19 02.24		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	04.05.19 02.24		
o-Terphenyl		84-15-1	93	%	70-135	04.05.19 02.24		



FS06

SCM

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

04.05.19 15.00

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Matrix: Soil Date Received:04.03.19 11.25

Basis:

Wet Weight

Lab Sample Id: 619853-013 Date Collected: 03.29.19 16.35 Sample Depth: 5 ft

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

Date Prep:

Tech: SCM % Moisture:

Seq Number: 3084841

Sample Id:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.05.19 23.03	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.05.19 23.03	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.05.19 23.03	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.05.19 23.03	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.05.19 23.03	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	04.05.19 23.03	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.05.19 23.03	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	104	%	70-130	04.05.19 23.03		
1.4-Difluorobenzene		540-36-3	108	%	70-130	04.05.19 23.03		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Soil

Matrix: Sample Id: **FS07**

Date Collected: 03.29.19 16.40

Date Received:04.03.19 11.25

Sample Depth: 5 ft

Prep Method: E300P

04.03.19 17.00

% Moisture:

Tech: CHE CHE Analyst:

Basis:

Wet Weight

Seq Number: 3084530

Lab Sample Id: 619853-014

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.07	4.96	mg/kg	04.04.19 11.55		1

Date Prep:

Analytical Method: TPH by SW8015 Mod

Analytical Method: Inorganic Anions by EPA 300

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

04.04.19 14.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.05.19 02.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	27.3	15.0		mg/kg	04.05.19 02.44		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	04.05.19 02.44	U	1
Total TPH	PHC635	27.3	15.0		mg/kg	04.05.19 02.44		1
Total GRO-DRO	PHC628	27.3	15.0		mg/kg	04.05.19 02.44		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	90	%	70-135	04.05.19 02.44		
o-Terphenyl		84-15-1	92	%	70-135	04.05.19 02.44		



Lab Sample Id: 619853-014

FS07

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Matrix: Soil Date Received:04.03.19 11.25 Date Collected: 03.29.19 16.40 Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Wet Weight

% Moisture:

Tech: SCMSCM Analyst: 04.05.19 15.00 Basis: Date Prep:

Seq Number: 3084841

Sample Id:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.05.19 23.22	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.05.19 23.22	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.05.19 23.22	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.05.19 23.22	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.05.19 23.22	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.05.19 23.22	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.05.19 23.22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.05.19 23.22		
4-Bromofluorobenzene		460-00-4	101	%	70-130	04.05.19 23.22		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

04.03.19 17.00

Matrix: Sample Id: **FS08**

Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-015 Date Collected: 03.29.19 16.45 Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE % Moisture:

Analyst:

CHE Date Prep: Basis:

Wet Weight

Seq Number: 3084530

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.42	5.01	mg/kg	04.04.19 12.05		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

04.04.19 14.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.05.19 03.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	28.2	15.0		mg/kg	04.05.19 03.03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	04.05.19 03.03	U	1
Total TPH	PHC635	28.2	15.0		mg/kg	04.05.19 03.03		1
Total GRO-DRO	PHC628	28.2	15.0		mg/kg	04.05.19 03.03		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	04.05.19 03.03		
o-Terphenyl		84-15-1	93	%	70-135	04.05.19 03.03		



FS08

Analytical Method: BTEX by EPA 8021B

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

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Matrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-015 Date Collected: 03.29.19 16.45 Sample Depth: 5 ft

Prep Method: SW5030B

Tech: SCM % Moisture:

Analyst: SCM Date Prep: 04.05.19 15.00 Basis: Wet Weight

Seq Number: 3084841

Sample Id:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.05.19 23.41	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.05.19 23.41	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.05.19 23.41	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.05.19 23.41	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.05.19 23.41	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	04.05.19 23.41	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.05.19 23.41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	70-130	04.05.19 23.41		
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.05.19 23.41		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Sample Id: **FS09**

Date Received:04.03.19 11.25 Matrix: Soil

Lab Sample Id: 619853-016 Date Collected: 03.29.19 16.50 Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

% Moisture:

CHE Analyst: Basis: Date Prep: 04.03.19 17.00 Wet Weight

Seq Number: 3084530

Tech:

Tech:

CHE

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 04.04.19 12.15 14.0 4.98 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

ARM Analyst: 04.04.19 14.00 Basis: Wet Weight Date Prep:

Seq Number: 3084705

ARM

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.05.19 03.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	155	15.0		mg/kg	04.05.19 03.23		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	19.2	15.0		mg/kg	04.05.19 03.23		1
Total TPH	PHC635	174	15.0		mg/kg	04.05.19 03.23		1
Total GRO-DRO	PHC628	155	15.0		mg/kg	04.05.19 03.23		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	04.05.19 03.23		
o-Terphenyl		84-15-1	93	%	70-135	04.05.19 03.23		



FS09

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

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Matrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-016 Date Collected: 03.29.19 16.50 Sample Depth: 3 ft

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

SCM % Moisture:

Analyst: SCM Date Prep: 04.05.19 15.00 Basis: Wet Weight

Seq Number: 3084841

Sample Id:

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.06.19 00.00	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.06.19 00.00	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.06.19 00.00	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.06.19 00.00	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.06.19 00.00	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.06.19 00.00	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.06.19 00.00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	70-130	04.06.19 00.00		
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.06.19 00.00		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Sample Id: FS10 Matrix: Soil

Matrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-017 Date Collected: 03.29.19 16.55 Sample Depth: 3 ft

Prep Method: E300P

CHE % Moisture:

Analyst: CHE Date Prep: 04.03.19 17.00 Basis: Wet Weight

Seq Number: 3084530

Tech:

Analytical Method: Inorganic Anions by EPA 300

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 7.95
 4.97
 mg/kg
 04.04.19 12.25
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 04.04.19 14.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	410	15.0		mg/kg	04.05.19 03.42		1
Diesel Range Organics (DRO)	C10C28DRO	1620	15.0		mg/kg	04.05.19 03.42		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	165	15.0		mg/kg	04.05.19 03.42		1
Total TPH	PHC635	2200	15.0		mg/kg	04.05.19 03.42		1
Total GRO-DRO	PHC628	2030	15.0		mg/kg	04.05.19 03.42		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	112	%	70-135	04.05.19 03.42		
o-Terphenyl		84-15-1	120	%	70-135	04.05.19 03.42		



FS10

SCM

Analytical Method: BTEX by EPA 8021B

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Soil

04.05.19 15.00

Date Collected: 03.29.19 16.55 Sample Depth: 3 ft

Lab Sample Id: 619853-017

Prep Method: SW5030B

Date Received:04.03.19 11.25

Tech: SCM% Moisture:

Matrix:

Date Prep:

Basis: Wet Weight

Seq Number: 3084841

Sample Id:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.06.19 00.19	U	1
Toluene	108-88-3	0.00816	0.00202		mg/kg	04.06.19 00.19		1
Ethylbenzene	100-41-4	0.0711	0.00202		mg/kg	04.06.19 00.19		1
m,p-Xylenes	179601-23-1	0.314	0.00403		mg/kg	04.06.19 00.19		1
o-Xylene	95-47-6	0.205	0.00202		mg/kg	04.06.19 00.19		1
Total Xylenes	1330-20-7	0.519	0.00202		mg/kg	04.06.19 00.19		1
Total BTEX		0.598	0.00202		mg/kg	04.06.19 00.19		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	99	%	70-130	04.06.19 00.19		
4-Bromofluorobenzene		460-00-4	209	%	70-130	04.06.19 00.19	**	





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Soil

04.03.19 17.00

04.04.19 14.00

Sample Id: FS11 Matrix:

Date Received:04.03.19 11.25

Lab Sample Id: 619853-018 Date Collected: 03.29.19 17.00

Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Basis:

Wet Weight

Seq Number: 3084530

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.8	4.99	mg/kg	04.04.19 12.35		1

Date Prep:

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:

ARM

Basis: Wet Weight

Analyst: ARM Seq Number: 3084705

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	04.05.19 04.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	34.6	14.9		mg/kg	04.05.19 04.01		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9		mg/kg	04.05.19 04.01	U	1
Total TPH	PHC635	34.6	14.9		mg/kg	04.05.19 04.01		1
Total GRO-DRO	PHC628	34.6	14.9		mg/kg	04.05.19 04.01		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	90	%	70-135	04.05.19 04.01		
o-Terphenyl		84-15-1	92	%	70-135	04.05.19 04.01		



FS11

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Matrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-018 Date Collected: 03.29.19 17.00 Sample Depth: 1 ft

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

Tech: SCM % Moisture:

Analyst: SCM Date Prep: 04.05.19 15.00 Basis: Wet Weight

Seq Number: 3084841

Sample Id:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.06.19 00.39	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.06.19 00.39	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.06.19 00.39	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.06.19 00.39	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.06.19 00.39	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	04.06.19 00.39	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.06.19 00.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	108	%	70-130	04.06.19 00.39		
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.06.19 00.39		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Sample Id: FS12 Matrix: S

atrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-019 Date Collected: 03.29.19 17.10

Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep:

04.03.19 17.00 Basis:

Wet Weight

Seq Number: 3084530

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.5	25.0	mg/kg	04.04.19 04.42		5

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 04.04.19 14.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.05.19 04.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	60.2	15.0		mg/kg	04.05.19 04.21		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	04.05.19 04.21	U	1
Total TPH	PHC635	60.2	15.0		mg/kg	04.05.19 04.21		1
Total GRO-DRO	PHC628	60.2	15.0		mg/kg	04.05.19 04.21		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	04.05.19 04.21		
o-Terphenyl		84-15-1	92	%	70-135	04.05.19 04.21		



FS12

SCM

Analytical Method: BTEX by EPA 8021B

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

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Matrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-019 Date Collected: 03.29.19 17.10 Sample Depth: 1 ft

Prep Method: SW5030B

% Moisture:

Analyst: SCM Date Prep: 04.05.19 15.00 Basis: Wet Weight

Seq Number: 3084841

Sample Id:

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.06.19 00.58	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.06.19 00.58	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.06.19 00.58	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	04.06.19 00.58	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.06.19 00.58	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.06.19 00.58	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.06.19 00.58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	98	%	70-130	04.06.19 00.58		
4-Bromofluorobenzene		460-00-4	131	%	70-130	04.06.19 00.58	**	





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

Soil

Sample Id: FS13 Matrix:

Lab Sample Id: 619853-020 Date Collected: 03.29.19 17.20

Date Received:04.03.19 11.25

Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

mons by LI A 500

Prep Method: E300P

% Moisture:

CHE Date Prep: 04.03.19 17.00 Basis:

asis: Wet Weight

Seq Number: 3084530

CHE

Tech:

Tech:

Analyst:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 27.3
 24.9
 mg/kg
 04.04.19 04.52
 5

Analytical Method: TPH by SW8015 Mod

ARM

Analyst: ARM

Date Prep: 04.04.19 14.00

% Moisture:

Basis: Wet Weight

Prep Method: TX1005P

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	04.05.19 04.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	69.3	15.0		mg/kg	04.05.19 04.40		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	04.05.19 04.40	U	1
Total TPH	PHC635	69.3	15.0		mg/kg	04.05.19 04.40		1
Total GRO-DRO	PHC628	69.3	15.0		mg/kg	04.05.19 04.40		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	04.05.19 04.40		
o-Terphenyl		84-15-1	91	%	70-135	04.05.19 04.40		



FS13

SCM

Analytical Method: BTEX by EPA 8021B

Certificate of Analytical Results 619853



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 11 Federal Battery

· ·

Matrix: Soil Date Received:04.03.19 11.25

Lab Sample Id: 619853-020 Date Collected: 03.29.19 17.20 Sample Depth: 1 ft

Prep Method: SW5030B

% Moisture:

Analyst: SCM Date Prep: 04.05.19 15.00 Basis: Wet Weight

Seq Number: 3084841

Sample Id:

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.06.19 01.17	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.06.19 01.17	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.06.19 01.17	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.06.19 01.17	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.06.19 01.17	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	04.06.19 01.17	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.06.19 01.17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	123	%	70-130	04.06.19 01.17		
1,4-Difluorobenzene		540-36-3	97	%	70-130	04.06.19 01.17		



Flagging Criteria



Page 262 of 437

- 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.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 619853

LT Environmental, Inc.

PLU Big Sinks 11 Federal Battery

Analytical Method:Inorganic Anions by EPA 300Prep Method:E300PSeq Number:3084528Matrix:SolidDate Prep:04.03.19MB Sample Id:7674999-1-BLKLCS Sample Id:7674999-1-BKSLCSD Sample Id:7674999-1-BSD

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

Chloride <0.858 250 272 109 272 109 90-110 0 20 mg/kg 04.03.19 20:13

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

 Seq Number:
 3084530
 Matrix:
 Solid
 Date Prep:
 04.03.19

 MB Sample Id:
 7675002-1-BLK
 LCS Sample Id:
 7675002-1-BKS
 LCSD Sample Id:
 7675002-1-BSD

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

Analytical Method: Inorganic Anions by EPA 300 Prep Method:

Seq Number: 3084528 Matrix: Soil Date Prep: 04.03.19

Parent Sample Id: 618636-010 MS Sample Id: 618636-010 S MSD Sample Id: 618636-010 SD

Parent Spike MS MS MSD MSD Limits %RPD RPD Limit Units Analysis

Flag **Parameter** Result Date Result %Rec Amount Result %Rec Chloride 15.3 250 293 292 90-110 0 20 04.03.19 20:42 X 111 111 mg/kg

Analytical Method: Inorganic Anions by EPA 300 Prep Method:

 Seq Number:
 3084528
 Matrix:
 Soil
 Date Prep:
 04.03.19

 Parent Sample Id:
 618636-011
 MS Sample Id:
 618636-011 S
 MSD Sample Id:
 618636-011 SD

MS MS %RPD RPD Limit Units Parent Spike **MSD MSD** Limits Analysis Flag **Parameter** Result Result %Rec Date Amount Result %Rec Chloride 32.6 250 310 111 309 90-110 0 20 04.03.19 22:59 X 111 mg/kg

Analytical Method:Inorganic Anions by EPA 300Prep Method:E300PSeq Number:3084530Matrix: SoilDate Prep: 04.03.19

Parent Sample Id: 619598-002 MS Sample Id: 619598-002 S MSD Sample Id: 619598-002 SD

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

Chloride 43.5 252 317 109 317 109 90-110 0 20 mg/kg 04.04.19 02:05

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference
$$\begin{split} [D] &= 100*(C\text{-A}) \, / \, B \\ RPD &= 200* \mid (C\text{-E}) \, / \, (C\text{+E}) \mid \\ [D] &= 100*(C) \, / \, [B] \end{split}$$

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

LCS = Laboratory Control Sample A = Parent Result

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

E300P

E300P



QC Summary 619853

LT Environmental, Inc.

PLU Big Sinks 11 Federal Battery

Analytical Method: Inorganic Anions by EPA 300 3084530

Parent Sample Id: 619598-003 MS Sample Id: 619598-003 S Date Prep: 04.03.19

E300P

Spike MS MS **MSD** %Rec

307

1110

LCS

Matrix: Soil

109

MSD Sample Id: 619598-003 SD

Prep Method:

%RPD RPD Limit Units

20

Date Prep:

Analysis Flag

Parameter

Result Amount Result 35.1 250

Parent

< 8.13

MB

MSD %Rec Result

108

LCSD

90-110

305

Limits

Date 04.04.19 04:23

Flag

Analytical Method: TPH by SW8015 Mod

3084705

Matrix: Solid

Prep Method:

mg/kg

TX1005P 04.04.19

Seq Number: MB Sample Id:

Seq Number:

Chloride

Diesel Range Organics (DRO)

7675081-1-BLK

LCS Sample Id: 7675081-1-BKS

LCSD Sample Id: 7675081-1-BSD

MB Spike LCS LCS %RPD RPD Limit Units LCSD LCSD Limits Analysis **Parameter** Result Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) < 8.00 1000 1030 103 998 100 70-135 3 20 04.04.19 20:30 mg/kg

111

1050 70-135 6 20 04.04.19 20:30 105 mg/kg

LCSD

Limits Units Analysis

Surrogate %Rec %Rec Flag Flag %Rec Flag Date 04.04.19 20:30 1-Chlorooctane 98 122 130 70-135 % 100 124 125 70-135 04.04.19 20:30 o-Terphenyl %

LCS

Analytical Method: TPH by SW8015 Mod

Seq Number: 3084705

1000

MB

Prep Method:

TX1005P

Matrix: Soil

Date Prep:

04.04.19

Parent Sample Id:

619853-001

MS Sample Id: 619853-001 S MSD Sample Id: 619853-001 SD

Analysis Flag

MS MS %RPD RPD Limit Units **Parent** Spike **MSD** MSD Limits **Parameter** Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 20.0 997 940 04.04.19 21:29 92 952 93 70-135 20 mg/kg 1 792 997 1630 84 1620 70-135 20 04.04.19 21:29 Diesel Range Organics (DRO) 83 1 mg/kg

MS MS **MSD** Limits Units Analysis **MSD Surrogate** %Rec Flag %Rec Flag Date 04.04.19 21:29 108 113 1-Chlorooctane 70-135 % 04.04.19 21:29 o-Terphenyl 110 109 70-135 %

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

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

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

LCS = Laboratory Control Sample A = Parent Result

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

Flag



QC Summary 619853

LT Environmental, Inc.

PLU Big Sinks 11 Federal Battery

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3084841Matrix:SolidDate Prep:04.05.19

MB Sample Id: 7675216-1-BLK LCS Sample Id: 7675216-1-BKS LCSD Sample Id: 7675216-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date]
Benzene	< 0.000386	0.100	0.0975	98	0.0954	96	70-130	2	35	mg/kg	04.05.19 16:23	
Toluene	< 0.000457	0.100	0.0923	92	0.0907	91	70-130	2	35	mg/kg	04.05.19 16:23	
Ethylbenzene	< 0.00201	0.100	0.0940	94	0.0926	93	70-130	2	35	mg/kg	04.05.19 16:23	
m,p-Xylenes	< 0.00102	0.201	0.180	90	0.178	89	70-130	1	35	mg/kg	04.05.19 16:23	
o-Xylene	< 0.00201	0.100	0.0900	90	0.0896	90	70-130	0	35	mg/kg	04.05.19 16:23	
Surrogate	MB	MB Flag	LC		LCS Flag	LCSI		_	Limits	Units	Analysis Date	

Date %Rec Flag %Rec Flag Flag %Rec 106 101 101 70-130 04.05.19 16:23 1,4-Difluorobenzene % 04.05.19 16:23 4-Bromofluorobenzene 94 91 93 70-130 %

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3084841Matrix: SoilDate Prep:04.05.19

Parent Sample Id: 619853-001 MS Sample Id: 619853-001 S MSD Sample Id: 619853-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	it Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0805	81	0.0813	82	70-130	1	35	mg/kg	04.05.19 17:01	
Toluene	0.00266	0.100	0.0731	70	0.0676	65	70-130	8	35	mg/kg	04.05.19 17:01	X
Ethylbenzene	0.00128	0.100	0.0641	63	0.0562	55	70-130	13	35	mg/kg	04.05.19 17:01	X
m,p-Xylenes	0.00566	0.200	0.125	60	0.107	51	70-130	16	35	mg/kg	04.05.19 17:01	X
o-Xylene	0.00258	0.100	0.0648	62	0.0559	54	70-130	15	35	mg/kg	04.05.19 17:01	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		105		70-130	%	04.05.19 17:01
4-Bromofluorobenzene	107		101		70-130	%	04.05.19 17:01

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100* (C) / [B]

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

LCS = Laboratory Control Sample A = Parent Result

C = MS/LCS Result

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

Page 53 of 55



Chain of Custody

Work Order No: _______

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

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2028																					16	31 / 245.1	/7470 /74	/1 : Hg
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for an of Xenco. A minimum charge of \$75.00 will be applied to eagth project and a charge of \$5 for each sample							any loss	es or ex	nenses	incurred	hy the	·liant if e	uch loe	ene ara di	un to o	iroumat	anaaa b	anond t	ha aant	s rol				
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Final 1.000



Chain of Custody

Work Order No:	le19	ESZ
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Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

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	Project Manager:	Adrian Baker				Bill to: (if di	fferent)			yle_	Lite							Work	Orde	r Cor	nments	
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	Address:	3300 North A				Address:						90					Project:					
	City, State ZIP:	Midland, TX 7	9705			City, State									Repo	rting:Le	vel II]evel II	ı <u></u>	ST/US	T RP [Devel IV
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	SAMPLE RECE	IPT Te	mp Blank:	Yes (Ng Wet	Ice: Yes No	J															
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Ŀ	Sample Custody Sea	is: Yes	le∕ N/A	7	Total Contain	ers:		(EPA 8015)	(EPA (e (EPA										T	AT starts the da lab, if receive	ay recevied by the ed by 4:30pm
	Sample Iden	tification	Matrix	Date Sample		Dones	Q H	TPH (E	BTEX (Chloride											C1 0	
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XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 04/03/2019 11:25:00 AM

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

Work Order #: 619853

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		.4
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping co	ntainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	es?	N/A
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinque	uished/ received?	Yes
#10 Chain of Custody agrees with samp	le labels/matrix?	Yes
#11 Container label(s) legible and intact	?	Yes
#12 Samples in proper container/ bottle?		Yes
#13 Samples properly preserved?		Yes
#14 Sample container(s) intact?		Yes
#15 Sufficient sample amount for indicat	ed test(s)?	Yes
#16 All samples received within hold tim	e?	Yes
#17 Subcontract of sample(s)?		N/A
#18 Water VOC samples have zero hear	dspace?	N/A
* Must be completed for after-hours de Analyst:	elivery of samples prior to placing in	the refrigerator
Checklist completed by:	Brianna Teel	Date: <u>04/03/2019</u>
Checklist reviewed by:	Kalei Stout	Date: 04/03/2019

Analytical Report 644983

for

LT Environmental, Inc.

Project Manager: Dan Moir
PLUBS11 Federal Battery
012918036
09-DEC-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)

Page 1 of 19

Final 1.002



09-DEC-19

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

Reference: XENCO Report No(s): 644983

PLUBS11 Federal Battery

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 644983. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 644983 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vermer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 644983

LT Environmental, Inc., Arvada, CO

PLUBS11 Federal Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS09A	S	12-03-19 16:45	5 ft	644983-001
FS10A	S	12-03-19 16:23	5 ft	644983-002
SW08	S	12-03-19 14:37	0 - 5 ft	644983-003
SW09	S	12-03-19 16:58	0 - 5 ft	644983-004

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLUBS11 Federal Battery

 Project ID:
 012918036
 Report Date:
 09-DEC-19

 Work Order Number(s):
 644983
 Date Received:
 12/04/2019

Sample receipt non conformances and comments:

CORRECTED SAMPLE NAMES PER CLIENT EMAIL, SEE BELOW. NEW VERSION GENERATED. JK 12/09/19

FS09B --> FS09A FS10B --> FS10A

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3109451 BTEX by EPA 8021B

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

Certificate of Analysis Summary 644983

LT Environmental, Inc., Arvada, CO Project Name: PLUBS11 Federal Battery

Project Id: 012918036 **Contact:**

Dan Moir

Project Location:

Date Received in Lab: Wed Dec-04-19 08:45 am

Report Date: 09-DEC-19 Project Manager: Jessica Kramer

	Lab Id:	644983-00)1	644983-00	02	644983-00	03	644983-00)4		
Analysis Paguastad	Field Id:	FS09A		FS10A		SW08		SW09			
Analysis Requested	Depth:	5- ft		5- ft		0-5 ft		0-5 ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Dec-03-19 1	6:45	Dec-03-19 1	6:23	Dec-03-19 1	4:37	Dec-03-19 1	6:58		
Chloride by EPA 300	Extracted:	Dec-04-19 1	3:00	Dec-04-19 1	3:00	Dec-04-19 1	3:00	Dec-04-19 1	3:00		
	Analyzed:	Dec-04-19 1	6:51	Dec-04-19 1	6:57	Dec-04-19 1	7:03	Dec-04-19 1	7:20		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		<9.98	9.98	<10.1	10.1	<10.1	10.1	<10.0	10.0		

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

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Version: 1.%

fession Weamer

Jessica Kramer Project Assistant

Certificate of Analysis Summary 644983

LT Environmental, Inc., Arvada, CO Project Name: PLUBS11 Federal Battery

Date Received in Lab: Wed Dec-04-19 08:45 am

Report Date: 09-DEC-19 **Project Manager:** Jessica Kramer

Project Id: 012918036 Contact: Dan Moir

Project Location:

	Lab Id:	644983-0	001	644983-0	002	644983-0	003	644983-	004		
	Field Id:	FS09A		FS10A		SW08		SW09			
Analysis Requested			7		`						
, ,	Depth:	5- ft		5- ft		0-5 ft		0-5 ft			
	Matrix:	SOIL	,	SOIL	,	SOIL	,	SOIL	,		
	Sampled:	Dec-03-19	16:45	Dec-03-19	16:23	Dec-03-19	14:37	Dec-03-19	16:58		
BTEX by EPA 8021B	Extracted:	Dec-04-19	10:00	Dec-04-19	10:00	Dec-04-19	10:00	Dec-04-19	10:00		
	Analyzed:	Dec-04-19	18:50	Dec-04-19	19:07	Dec-04-19	19:24	Dec-04-19	19:42		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene	·	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198		
Toluene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198		
Ethylbenzene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198		
m,p-Xylenes		< 0.00400	0.00400	< 0.00403	0.00403	< 0.00401	0.00401	< 0.00397	0.00397		
o-Xylene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198		
Total Xylenes		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198		
Total BTEX		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00198	0.00198		
TPH by SW8015 Mod	Extracted:	Dec-04-19	13:30	Dec-04-19	13:30	Dec-04-19	13:30	Dec-04-19	13:30		
	Analyzed:	Dec-04-19	15:57	Dec-04-19	16:16	Dec-04-19	16:36	Dec-04-19	16:36		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.1	50.1	<50.3	50.3	<49.9	49.9		
Diesel Range Organics (DRO)		62.4	50.3	139	50.1	< 50.3	50.3	180	49.9		
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.1	50.1	< 50.3	50.3	<49.9	49.9		
Total GRO-DRO		62.4	50.3	139	50.1	< 50.3	50.3	180	49.9		
Total TPH		62.4	50.3	139	50.1	<50.3	50.3	180	49.9		

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

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Version: 1.%

Jessica Kramer
Project Assistant



LT Environmental, Inc., Arvada, CO

PLUBS11 Federal Battery

12.04.19 13.00

Sample Id: FS09A

Matrix: Soil

Date Received:12.04.19 08.45

Lab Sample Id: 644983-001 Date Collected: 12.03.19 16.45

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Date Prep:

% Moisture:

Basis:

Wet Weight

Analyst: MAB Seq Number: 3109466

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U 12.04.19 16.51 <9.98 9.98 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:

Analyst:

DTH DTH

Date Prep: 12.04.19 13.30

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	12.04.19 15.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	62.4	50.3		mg/kg	12.04.19 15.57		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	12.04.19 15.57	U	1
Total GRO-DRO	PHC628	62.4	50.3		mg/kg	12.04.19 15.57		1
Total TPH	PHC635	62.4	50.3		mg/kg	12.04.19 15.57		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	132	%	70-135	12.04.19 15.57		
o-Terphenyl		84-15-1	134	%	70-135	12.04.19 15.57		



LT Environmental, Inc., Arvada, CO

PLUBS11 Federal Battery

Sample Id: FS09A Matrix: Soil Date Received:12.04.19 08.45

Lab Sample Id: 644983-001 Date Collected: 12.03.19 16.45 Sample Depth: 5 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.04.19 10.00

Seq Number: 3109451

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.04.19 18.50	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.04.19 18.50	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.04.19 18.50	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	12.04.19 18.50	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.04.19 18.50	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.04.19 18.50	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.04.19 18.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	104	%	70-130	12.04.19 18.50		
1,4-Difluorobenzene		540-36-3	104	%	70-130	12.04.19 18.50		



LT Environmental, Inc., Arvada, CO

PLUBS11 Federal Battery

Sample Id: FS10A Matrix: Soil Date Received:12.04.19 08.45

Lab Sample Id: 644983-002

Date Collected: 12.03.19 16.23

12.04.19 13.00

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

MAB Tech:

Analyst:

MAB Date Prep: % Moisture:

Basis:

Wet Weight

Seq Number: 3109466

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U <10.1 10.1 12.04.19 16.57 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst:

DTH DTH

12.04.19 13.30 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	12.04.19 16.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	139	50.1		mg/kg	12.04.19 16.16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	12.04.19 16.16	U	1
Total GRO-DRO	PHC628	139	50.1		mg/kg	12.04.19 16.16		1
Total TPH	PHC635	139	50.1		mg/kg	12.04.19 16.16		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	104	%	70-135	12.04.19 16.16		
o-Terphenyl		84-15-1	121	%	70-135	12.04.19 16.16		



Analyst:

Certificate of Analytical Results 644983

LT Environmental, Inc., Arvada, CO

PLUBS11 Federal Battery

12.04.19 10.00

Basis:

70-130

12.04.19 19.07

Wet Weight

Sample Id: FS10A Matrix: Soil Date Received:12.04.19 08.45

Lab Sample Id: 644983-002 Date Collected: 12.03.19 16.23 Sample Depth: 5 ft

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

Date Prep:

Tech: MAB % Moisture:

540-36-3

Seq Number: 3109451

MAB

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.04.19 19.07	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.04.19 19.07	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.04.19 19.07	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	12.04.19 19.07	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.04.19 19.07	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	12.04.19 19.07	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	12.04.19 19.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	102	%	70-130	12.04.19 19.07		

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LT Environmental, Inc., Arvada, CO

PLUBS11 Federal Battery

12.04.19 13.00

Sample Id: **SW08** Matrix: Soil Date Received:12.04.19 08.45

Lab Sample Id: 644983-003 Date Collected: 12.03.19 14.37 Sample Depth: 0 - 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

> MAB Date Prep:

% Moisture:

Analyst:

Basis:

Wet Weight

Seq Number: 3109466

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mg/kg	12.04.19 17.03	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

12.04.19 13.30 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	12.04.19 16.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	12.04.19 16.36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	12.04.19 16.36	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	12.04.19 16.36	U	1
Total TPH	PHC635	< 50.3	50.3		mg/kg	12.04.19 16.36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	116	%	70-135	12.04.19 16.36		
o-Terphenyl		84-15-1	125	%	70-135	12.04.19 16.36		



LT Environmental, Inc., Arvada, CO

PLUBS11 Federal Battery

Soil

Matrix:

Date Received:12.04.19 08.45

Lab Sample Id: 644983-003 Date Collected: 12.03.19 14.37

Sample Depth: 0 - 5 ft

Analytical Method: BTEX by EPA 8021B

SW08

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Sample Id:

Date Prep: 12.04.19 10.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.04.19 19.24	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.04.19 19.24	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.04.19 19.24	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	12.04.19 19.24	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.04.19 19.24	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.04.19 19.24	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.04.19 19.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	104	%	70-130	12.04.19 19.24		
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.04.19 19.24		



LT Environmental, Inc., Arvada, CO

PLUBS11 Federal Battery

Sample Id: **SW09** Matrix: Soil

Date Received:12.04.19 08.45

Lab Sample Id: 644983-004 Date Collected: 12.03.19 16.58 Sample Depth: 0 - 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

MAB

% Moisture:

Tech: Analyst: MAB

Date Prep: 12.04.19 13.00 Basis:

Wet Weight

Seq Number: 3109466

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	12.04.19 17.20	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

12.04.19 13.30 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	12.04.19 16.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	180	49.9		mg/kg	12.04.19 16.36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	12.04.19 16.36	U	1
Total GRO-DRO	PHC628	180	49.9		mg/kg	12.04.19 16.36		1
Total TPH	PHC635	180	49.9		mg/kg	12.04.19 16.36		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	105	%	70-135	12.04.19 16.36		
o-Terphenyl		84-15-1	121	%	70-135	12.04.19 16.36		



SW09

MAB

Certificate of Analytical Results 644983

LT Environmental, Inc., Arvada, CO

PLUBS11 Federal Battery

Soil

12.04.19 10.00

Matrix: Lab Sample Id: 644983-004 Date Collected: 12.03.19 16.58 Sample Depth: 0 - 5 ft

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

Date Prep:

% Moisture:

70-130

12.04.19 19.42

Basis:

Date Received:12.04.19 08.45

Wet Weight

Tech: MAB

540-36-3

Seq Number: 3109451

1,4-Difluorobenzene

Sample Id:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.04.19 19.42	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.04.19 19.42	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.04.19 19.42	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	12.04.19 19.42	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.04.19 19.42	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.04.19 19.42	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.04.19 19.42	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	99	%	70-130	12.04.19 19.42		

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Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.

E300P

E300P

12.04.19

644979-001 SD

LCSD Sample Id: 7691688-1-BSD

12.04.19

Analysis

Flag

Flag

Flag

Prep Method:

%RPD RPD Limit Units

Prep Method:

MSD Sample Id:

Date Prep:

Date Prep:



QC Summary 644983

LT Environmental, Inc.

PLUBS11 Federal Battery

Analytical Method: Chloride by EPA 300

Seq Number: 3109466 Matrix: Solid

LCS Sample Id: 7691688-1-BKS MB Sample Id: 7691688-1-BLK

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

Date 12.04.19 15:56 Chloride <10.0 250 262 105 266 106 90-110 2 20 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3109466 Matrix: Soil

MS Sample Id: 644979-001 S

Parent Sample Id: 644979-001

Spike MS MS

%RPD RPD Limit Units Parent **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec Chloride 10.5 202 219 103 217 103 90-110 20 mg/kg 12.04.19 16:34

Analytical Method: Chloride by EPA 300

E300P Prep Method: 3109466 Matrix: Soil Seq Number: Date Prep: 12.04.19

MS Sample Id: MSD Sample Id: 644985-005 SD 644985-005 S 644985-005 Parent Sample Id:

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

Chloride 942 198 1140 100 1160 109 90-110 2 20 12.04.19 17:57 mg/kg

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method: 3109453 Matrix: Solid Seq Number: Date Prep: 12.04.19

7691711-1-BKS LCSD Sample Id: LCS Sample Id: 7691711-1-BSD MB Sample Id: 7691711-1-BLK

%RPD RPD Limit Units MB Spike LCS LCS Limits Analysis LCSD LCSD **Parameter** Result %Rec Date Result Amount %Rec Result Gasoline Range Hydrocarbons (GRO) 914 91 940 70-135 3 12.04.19 15:37 < 50.0 1000 94 35 mg/kg 12.04.19 15:37 1040 104 70-135 9 35 Diesel Range Organics (DRO) 1000 1140 < 50.0 114 mg/kg

LCS MB MB LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 1-Chlorooctane 97 124 130 70-135 % 12.04.19 15:37 12.04.19 15:37 o-Terphenyl 108 123 128 70-135 %

Analytical Method: TPH by SW8015 Mod

Seg Number: 3109453 Matrix: Solid Date Prep: 12.04.19

MB Sample Id: 7691711-1-BLK

MB Units Analysis Flag **Parameter** Result Date 12.04.19 15:17 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

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

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

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

LCS = Laboratory Control Sample

A = Parent Result = MS/LCS Result

= MSD/LCSD Result

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

SW8015P

Prep Method:



Seq Number:

Parent Sample Id:

QC Summary 644983

LT Environmental, Inc.

PLUBS11 Federal Battery

Analytical Method: TPH by SW8015 Mod

644983-001

Matrix: Soil

Date Prep: 12.04.19

Prep Method:

SW8015P

SW5030B

Analysis

Flag

Flag

3109453 MS Sample Id: 644983-001 S MSD Sample Id: 644983-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	< 50.2	1000	902	90	916	91	70-135	2	35	mg/kg	12.04.19 15:57	
Diesel Range Organics (DRO)	62.4	1000	1090	103	1080	101	70-135	1	35	mg/kg	12.04.19 15:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	128		126		70-135	%	12.04.19 15:57
o-Terphenyl	132		126		70-135	%	12.04.19 15:57

Analytical Method: BTEX by EPA 8021B

Prep Method: Seq Number: 3109451 Matrix: Solid Date Prep: 12.04.19 LCS Sample Id: 7691693-1-BKS LCSD Sample Id: 7691693-1-BSD MB Sample Id: 7691693-1-BLK

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	0.106	106	0.0940	94	70-130	12	35	mg/kg	12.04.19 10:40
Toluene	< 0.00200	0.100	0.106	106	0.0922	92	70-130	14	35	mg/kg	12.04.19 10:40
Ethylbenzene	< 0.00200	0.100	0.104	104	0.0900	90	71-129	14	35	mg/kg	12.04.19 10:40
m,p-Xylenes	< 0.000754	0.200	0.216	108	0.185	93	70-135	15	35	mg/kg	12.04.19 10:40
o-Xylene	< 0.00200	0.100	0.104	104	0.0896	90	71-133	15	35	mg/kg	12.04.19 10:40

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag	2111145	01110	Date
1,4-Difluorobenzene	101		101		99		70-130	%	12.04.19 10:40
4-Bromofluorobenzene	95		97		97		70-130	%	12.04.19 10:40

LCS

LCS

Analytical Method: BTEX by EPA 8021B

MB

MB

Prep Method: SW5030B Seq Number: 3109451 Matrix: Soil Date Prep: 12.04.19 MS Sample Id: 644967-001 S MSD Sample Id: 644967-001 SD Parent Sample Id: 644967-001

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00198	0.0992	0.0911	92	0.0851	86	70-130	7	35	mg/kg	12.04.19 11:14
Toluene	< 0.00198	0.0992	0.0876	88	0.0825	83	70-130	6	35	mg/kg	12.04.19 11:14
Ethylbenzene	0.000640	0.0992	0.0827	83	0.0782	78	71-129	6	35	mg/kg	12.04.19 11:14
m,p-Xylenes	< 0.000748	0.198	0.170	86	0.161	81	70-135	5	35	mg/kg	12.04.19 11:14
o-Xylene	0.000950	0.0992	0.0825	82	0.0783	78	71-133	5	35	mg/kg	12.04.19 11:14

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		100		70-130	%	12.04.19 11:14
4-Bromofluorobenzene	100		96		70-130	%	12.04.19 11:14

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

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

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

LCS = Laboratory Control Sample

A = Parent Result C = MS/LCS Result

E = MSD/LCSD Result

LCSD

Limits

Unite

LCSD

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

Received by OCD: 7/29/2025 2:47:50 PM



Chain of Custody

Work Order No: 644983

Houston,TX (281) 240-4200 Dalles,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

Project Manager:	Dan f	Moir				Bill to: (if differ	entj	Kyle Littrell				_	Work Order Comments																																															
Company Name:	LTE	vironmer	ntal, Inc.,	Permian of	ffice	Company Na	me:	XTO Energy					Program: UST/PST PRP Brownfields RC Duperfund																																															
Address:		North A S	100000			Address:		3104 E Green Street						State of Project:																																														
City, State ZIP:		nd, TX 79				City, State Z	P:	Carlsbad, NM 88220						Reporting:Level II evel III ST/UST RP evel IV						IIV L																																								
Phone:		36.3849	100		Emai	it: Idelval@lter								Deliverables: EDD					Other:																																									
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roject Number:	OF	19180	336			tine [
O. Number:	_	7.000		0		sh: 24 hr	7			1					-																																													
Sampler's Name:	Benja	min Betitt	Luis.	Del Val	Due	Date:																																																						
SAMPLE RECE	IPT	Ten	np Blank:	Yes) No	Wet lo	e: (Yes) No											- 1																																											
emperature (°C):		1-2		0	Thermomete	er ID	nen		7000	-											- 1																																							
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Sample Custody Sea	als:	Yes No) N/A	Tota	l Containers	s: 4	4 2 2 2 2	PA W	(EPA												-	rass, r	Trocking ay																																					
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FSIG B			5	12/3/2019	1623	5'	1	1	1	1										_	-	_																																						
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Total 200.7 / 6	7.7.7	200.8 / 6			RCRA 13	SPPM Texas PLP 6010: 8R	11 A	Sb /	As Ba	a Be I	B Cd	Ca C	r Co u Pb	Cu Fe Mn M	e Pb Mo Ni	Mg M Se A	n Mo g TI I	Ni F U	Se A	g Sid	02 Na 1631	Sr TI : / 245.1	Sn U V 2 17470 / 7	'n '471 : Hg																																				
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Xerroo. A minimum ch	arge of t	\$76.00 will be	applied to	each project as	nd a charge of	\$6 for each sample	le submi	tted to)	Kenco, b	out not ar	myres.	11444			-	T	viousity	(NORTH-COLUMN			la Street		Dete	/Time																																				
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Date/Time

12-4-2614

Revised 95M18Rev. 2016 1



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 12/04/2019 08:45:00 AM

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

Work Order #: 644983

Analyst:

Temperature Measuring device used: tnm 007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		1.2	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping conta	iner/ cooler?	No	
#5 Custody Seals intact on sample bottles?		No	
#6*Custody Seals Signed and dated?		No	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		Yes	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample I	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		Yes	
#18 Water VOC samples have zero headsp	pace?	N/A	

* Must be completed for af	ter-hours delivery o	f samples prior to	placing in the refrigerator

Checklist completed by:	D .	Date: 12/04/2019
	Martha Castro	
Checklist reviewed by:	Jessica Vermer	Date: 12/05/2019
	Jessica Kramer	

PH Device/Lot#:

Analytical Report 645171

for

LT Environmental, Inc.

Project Manager: Dan Moir
PLU BS 11 Federal Battery
012918035
06-DEC-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



06-DEC-19

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

Reference: XENCO Report No(s): 645171

PLU BS 11 Federal Battery

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 645171. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 645171 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vermer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 645171

LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS14	S	12-04-19 16:10	5 ft	645171-001
FS15	S	12-04-19 16:40	5 ft	645171-002
FS16	S	12-04-19 16:50	5 ft	645171-003
SW10	S	12-04-19 15:46	0 - 5 ft	645171-004
SW11	S	12-04-19 17:10	0 - 5 ft	645171-005

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU BS 11 Federal Battery

 Project ID:
 012918035
 Report Date:
 06-DEC-19

 Work Order Number(s):
 645171
 Date Received:
 12/05/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3109607 BTEX by EPA 8021B

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

Batch: LBA-3109615 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by

re-analysis.

Samples affected are: 645167-003 SD.

LT Environmental, Inc., Arvada, CO

Project Name: PLU BS 11 Federal Battery

Date Received in Lab: Thu Dec-05-19 08:20 am

Page 292 of 437

Report Date: 06-DEC-19 **Project Manager:** Jessica Kramer

Project Id: 012918035 Contact: Dan Moir

Project Location:

			1								1	
	Lab Id:	645171-0	001	645171-0	002	645171-0	003	645171-0	004	645171-	005	
Analysis Requested	Field Id:	FS14		FS15		FS16		SW10		SW11		
mulysis Requesicu	Depth:	5- ft		5- ft		5- ft		0-5 ft		0-5 ft		
	Matrix:	SOIL		SOIL	,	SOIL	,	SOIL	,	SOIL	_	
	Sampled:	Dec-04-19	16:10	Dec-04-19	16:40	Dec-04-19 16:50		Dec-04-19 15:46		Dec-04-19	17:10	
BTEX by EPA 8021B	Extracted:	Dec-05-19	11:18	Dec-05-19	11:18	Dec-05-19	11:18	Dec-05-19	11:18	Dec-05-19	11:18	
	Analyzed:	Dec-05-19	15:56	Dec-05-19	16:14	Dec-05-19	17:23	Dec-05-19	17:41	Dec-05-19	15:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00198	0.00198	
Toluene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00198	0.00198	
Ethylbenzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00198	0.00198	
m,p-Xylenes		< 0.00403	0.00403	< 0.00401	0.00401	< 0.00399	0.00399	< 0.00398	0.00398	< 0.00397	0.00397	
o-Xylene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00198	0.00198	
Total Xylenes		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00198	0.00198	
Total BTEX		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00198	0.00198	
Chloride by EPA 300	Extracted:	Dec-05-19	10:32	Dec-05-19	10:32	Dec-05-19	10:32	Dec-05-19	10:32	Dec-05-19	10:32	
	Analyzed:	Dec-05-19	17:18	Dec-05-19	17:25	Dec-05-19	17:44	Dec-05-19	17:50	Dec-05-19	17:56	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		<10.0	10.0	<10.0	10.0	<10.0	10.0	<9.98	9.98	<10.0	10.0	
TPH by SW8015 Mod	Extracted:	Dec-05-19	15:00	Dec-05-19	15:00	Dec-05-19	15:00	Dec-05-19	15:00	Dec-05-19	15:00	
	Analyzed:	Dec-05-19	18:09	Dec-05-19	18:09	Dec-05-19	18:29	Dec-05-19	18:29	Dec-05-19	18:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)	·	< 50.0	50.0	< 50.2	50.2	< 50.1	50.1	< 50.0	50.0	<50.1	50.1	
Diesel Range Organics (DRO)		99.4	50.0	169	50.2	320	50.1	< 50.0	50.0	58.9	50.1	
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	< 50.2	50.2	< 50.1	50.1	< 50.0	50.0	<50.1	50.1	
Total GRO-DRO		99.4	50.0	169	50.2	320	50.1	< 50.0	50.0	58.9	50.1	
Total TPH		99.4	50.0	169	50.2	320	50.1	< 50.0	50.0	58.9	50.1	<u> </u>

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

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

Jessica Kramer

Jessica Kramer Project Assistant



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: **FS14** Matrix:

Date Received:12.05.19 08.20

Lab Sample Id: 645171-001

Soil Date Collected: 12.04.19 16.10

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB MAB

12.05.19 10.32 Date Prep:

Basis:

Wet Weight

Seq Number: 3109602

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	12.05.19 17.18	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

12.05.19 15.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	12.05.19 18.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	99.4	50.0		mg/kg	12.05.19 18.09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	12.05.19 18.09	U	1
Total GRO-DRO	PHC628	99.4	50.0		mg/kg	12.05.19 18.09		1
Total TPH	PHC635	99.4	50.0		mg/kg	12.05.19 18.09		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	131	%	70-135	12.05.19 18.09		
o-Terphenyl		84-15-1	133	%	70-135	12.05.19 18.09		

Wet Weight



Certificate of Analytical Results 645171

LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS14 Matrix: Soil Date Received:12.05.19 08.20

Lab Sample Id: 645171-001 Date Collected: 12.04.19 16.10 Sample Depth: 5 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.05.19 11.18 Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.05.19 15.56	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.05.19 15.56	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.05.19 15.56	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	12.05.19 15.56	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.05.19 15.56	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	12.05.19 15.56	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	12.05.19 15.56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	99	%	70-130	12.05.19 15.56		
1,4-Difluorobenzene		540-36-3	102	%	70-130	12.05.19 15.56		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS15

Matrix: Soil

Date Received:12.05.19 08.20

Lab Sample Id: 645171-002

Date Collected: 12.04.19 16.40

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB MAB

Date Prep: 12.05.19 10.32

Basis:

Wet Weight

Seq Number: 3109602

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U <10.0 10.0 12.05.19 17.25 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep: 12.05.19 15.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	12.05.19 18.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	169	50.2		mg/kg	12.05.19 18.09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	12.05.19 18.09	U	1
Total GRO-DRO	PHC628	169	50.2		mg/kg	12.05.19 18.09		1
Total TPH	PHC635	169	50.2		mg/kg	12.05.19 18.09		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	118	%	70-135	12.05.19 18.09		
o-Terphenyl		84-15-1	133	%	70-135	12.05.19 18.09		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS15 Matrix: Soil Date Received:12.05.19 08.20

Lab Sample Id: 645171-002 Date Collected: 12.04.19 16.40 Sample Depth: 5 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.05.19 11.18 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.05.19 16.14	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.05.19 16.14	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.05.19 16.14	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	12.05.19 16.14	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.05.19 16.14	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.05.19 16.14	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.05.19 16.14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	12.05.19 16.14		
4-Bromofluorobenzene		460-00-4	102	%	70-130	12.05.19 16.14		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Soil

Sample Id: **FS16** Matrix:

Date Received:12.05.19 08.20

Lab Sample Id: 645171-003

Date Collected: 12.04.19 16.50

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep:

12.05.19 10.32

Basis:

Wet Weight

Seq Number: 3109602

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	12.05.19 17.44	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

DTH Tech:

% Moisture:

DTH Analyst:

12.05.19 15.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	12.05.19 18.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	320	50.1		mg/kg	12.05.19 18.29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	12.05.19 18.29	U	1
Total GRO-DRO	PHC628	320	50.1		mg/kg	12.05.19 18.29		1
Total TPH	PHC635	320	50.1		mg/kg	12.05.19 18.29		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	115	%	70-135	12.05.19 18.29		
o-Terphenyl		84-15-1	128	%	70-135	12.05.19 18.29		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS16 Matrix: Soil Date Received:12.05.19 08.20

Lab Sample Id: 645171-003 Date Collected: 12.04.19 16.50 Sample Depth: 5 ft

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

MAB % Moisture:

Analyst: MAB Date Prep: 12.05.19 11.18 Basis: Wet Weight

Seq Number: 3109607

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.05.19 17.23	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.05.19 17.23	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.05.19 17.23	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.05.19 17.23	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.05.19 17.23	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.05.19 17.23	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.05.19 17.23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	96	%	70-130	12.05.19 17.23		
1,4-Difluorobenzene		540-36-3	100	%	70-130	12.05.19 17.23		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: **SW10**

Analytical Method: Chloride by EPA 300

MAB

MAB

Lab Sample Id: 645171-004

Matrix: Soil

Date Received:12.05.19 08.20

Wet Weight

Date Collected: 12.04.19 15.46

Sample Depth: 0 - 5 ft

Prep Method: E300P

% Moisture:

Basis:

12.05.19 10.32

Seq Number: 3109602

Tech: Analyst:

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U 12.05.19 17.50 <9.98 9.98 mg/kg 1

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

12.05.19 15.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	12.05.19 18.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	12.05.19 18.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	12.05.19 18.29	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	12.05.19 18.29	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	12.05.19 18.29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	109	%	70-135	12.05.19 18.29		
o-Terphenyl		84-15-1	129	%	70-135	12.05.19 18.29		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: SW10 Matrix: Soil Date Received:12.05.19 08.20

Lab Sample Id: 645171-004 Date Collected: 12.04.19 15.46 Sample Depth: 0 - 5 ft

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

% Moisture:

Analyst: MAB Date Prep: 12.05.19 11.18 Basis: Wet Weight

Seq Number: 3109607

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	12.05.19 17.41	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	12.05.19 17.41	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	12.05.19 17.41	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	12.05.19 17.41	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	12.05.19 17.41	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	12.05.19 17.41	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	12.05.19 17.41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	12.05.19 17.41		
4-Bromofluorobenzene		460-00-4	101	%	70-130	12.05.19 17.41		



Lab Sample Id: 645171-005

Certificate of Analytical Results 645171

LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

12.05.19 10.32

Sample Id: **SW11** Matrix: Soil

Date Received:12.05.19 08.20

Date Collected: 12.04.19 17.10

Sample Depth: 0 - 5 ft

Analytical Method: Chloride by EPA 300

MAB

MAB

Prep Method: E300P

Wet Weight

% Moisture:

Seq Number: 3109602

Tech: Analyst:

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U <10.0 10.0 12.05.19 17.56 mg/kg 1

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Basis:

DTH Tech: DTH

Analyst:

12.05.19 15.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	12.05.19 18.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	58.9	50.1		mg/kg	12.05.19 18.48		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	12.05.19 18.48	U	1
Total GRO-DRO	PHC628	58.9	50.1		mg/kg	12.05.19 18.48		1
Total TPH	PHC635	58.9	50.1		mg/kg	12.05.19 18.48		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	119	%	70-135	12.05.19 18.48		
o-Terphenyl		84-15-1	127	%	70-135	12.05.19 18.48		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: SW11 Matrix: Soil Date Received:12.05.19 08.20

Lab Sample Id: 645171-005 Date Collected: 12.04.19 17.10 Sample Depth: 0 - 5 ft

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

% Moisture:

Analyst: MAB Date Prep: 12.05.19 11.18 Basis: Wet Weight

Seq Number: 3109607

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.05.19 15.39	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.05.19 15.39	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.05.19 15.39	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	12.05.19 15.39	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.05.19 15.39	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.05.19 15.39	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.05.19 15.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	70-130	12.05.19 15.39		
1,4-Difluorobenzene		540-36-3	101	%	70-130	12.05.19 15.39		



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.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.



Seq Number:

Parameter

Parameter

Chloride

Chloride

QC Summary 645171

LT Environmental, Inc. PLU BS 11 Federal Battery

LCSD

Result

264

LCSD

%Rec

106

90-110

Analytical Method: Chloride by EPA 300

3109602 Matrix: Solid

Spike

250

Amount

LCS

264

Result

Result

391

LCS Sample Id: 7691787-1-BKS MB Sample Id: 7691787-1-BLK

E300P Prep Method:

Date Prep: 12.05.19 LCSD Sample Id: 7691787-1-BSD

Limits %RPD RPD Limit Units Analysis Flag Date

mg/kg

MSD Sample Id: 645164-001 SD

Analytical Method: Chloride by EPA 300

Seq Number: 3109602

Parent Sample Id: 645164-001

Parent

Result

175

MR

Result

<10.0

Matrix: Soil MS Sample Id:

Spike

200

Amount

645164-001 S MS MS

%Rec

108

LCS

106

%Rec

MSD MSD Result

393

Limits %Rec 109 90-110

%RPD RPD Limit Units

0

20

Prep Method:

Date Prep:

mg/kg 12.05.19 16:53

E300P

12.05.19

Analysis Flag Date

Flag

Flag

12.05.19 16:35

Analytical Method: TPH by SW8015 Mod

Seq Number:

MB Sample Id:

3109615

7691802-1-BLK

Matrix: Solid LCS Sample Id:

7691802-1-BKS

Prep Method: Date Prep:

20

SW8015P 12.05.19

LCSD Sample Id: 7691802-1-BSD

LCS LCS LCSD %RPD RPD Limit Units MB Spike LCSD Limits Analysis **Parameter** Result %Rec Date Result Amount Result %Rec 12.05.19 17:06 Gasoline Range Hydrocarbons (GRO) < 50.0 1000 873 87 945 95 70-135 35 8 mg/kg 107 12.05.19 17:06 Diesel Range Organics (DRO) < 50.0 1070 1100 70-135 3 35 mg/kg 1000 110

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 12.05.19 17:06 1-Chlorooctane 100 124 126 70-135 % 12.05.19 17:06 o-Terphenyl 108 129 130 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number:

3109615

Matrix: Solid

Prep Method:

SW8015P

Date Prep:

12.05.19

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB

MB Sample Id: 7691802-1-BLK

Result < 50.0

Units

Analysis Date

mg/kg

12.05.19 17:06

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

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

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

LCS = Laboratory Control Sample A = Parent Result

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

Flag

Flag



Seq Number:

Parent Sample Id:

QC Summary 645171

LT Environmental, Inc.

PLU BS 11 Federal Battery

Analytical Method: TPH by SW8015 Mod

645167-003

3109615 Matrix: Soil

MS Sample Id: 645167-003 S

Prep Method: SW8015P

Date Prep: 12.05.19

MSD Sample Id: 645167-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	< 50.1	1000	927	93	852	85	70-135	8	35	mg/kg	12.05.19 17:49	
Diesel Range Organics (DRO)	< 50.1	1000	1070	107	1100	110	70-135	3	35	mg/kg	12.05.19 17:49	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	133		135		70-135	%	12.05.19 17:49
o-Terphenyl	133		139	**	70-135	%	12.05.19 17:49

Analytical Method: BTEX by EPA 8021B

Seq Number: 3109607

09607 Matrix: Solid

Prep Method: SW5030B

Prep Method:

SW5030B

Date Prep: 12.05.19

MB Sample Id: 7691785-1-BLK LCS Sample Id: 7691785-1-BKS LCSD Sample Id: 7691785-1-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	0.0971	97	0.0896	90	70-130	8	35	mg/kg	12.05.19 12:28
Toluene	< 0.00200	0.100	0.0972	97	0.0895	90	70-130	8	35	mg/kg	12.05.19 12:28
Ethylbenzene	< 0.00200	0.100	0.0962	96	0.0883	88	71-129	9	35	mg/kg	12.05.19 12:28
m,p-Xylenes	< 0.00400	0.200	0.200	100	0.183	92	70-135	9	35	mg/kg	12.05.19 12:28
o-Xylene	< 0.00200	0.100	0.0970	97	0.0900	90	71-133	7	35	mg/kg	12.05.19 12:28

MB %Rec	MB Flag	%Rec	Flag	LCSD %Rec	Flag	Limits	Units	Analysis Date
102		99		98		70-130	%	12.05.19 12:28
98		97		97		70-130	%	12.05.19 12:28
	%Rec 102	%Rec Flag 102	%Rec Flag %Rec 102 99	%Rec Flag %Rec Flag 102 99	%Rec Flag %Rec Flag %Rec 102 99 98	%Rec Flag %Rec Flag %Rec Flag 102 99 98	%Rec Flag %Rec Flag 102 99 98 70-130	%Rec Flag %Rec Flag 102 99 98 70-130 %

Analytical Method: BTEX by EPA 8021B

 Seq Number:
 3109607
 Matrix:
 Soil
 Date Prep:
 12.05.19

 Parent Sample Id:
 645171-003
 MS Sample Id:
 645171-003 S
 MSD Sample Id:
 645171-003 SD

MS %RPD RPD Limit Units Parent Spike MS MSD MSD Limits Analysis **Parameter** Result Amount Result %Rec %Rec Date Result 12.05.19 21:09 0.0998 0.090090 0.0834 Benzene < 0.00200 84 70-130 8 35 mg/kg Toluene < 0.00200 0.0998 0.085085 0.0789 80 70-130 7 35 mg/kg 12.05.19 21:09 0.0726 71-129 12.05.19 21:09 Ethylbenzene < 0.00200 0.0998 0.0767 77 73 5 35 mg/kg 12.05.19 21:09 < 0.00399 0.200 0.157 79 0.148 70-135 35 m,p-Xylenes 75 6 mg/kg 0.0772 12.05.19 21:09 0.0998 0.0728 71-133 35 o-Xylene < 0.00200 77 74 6 mg/kg

Surrogate	MS MS %Rec Flag	MSD MSD %Rec Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99	100	70-130	%	12.05.19 21:09
4-Bromofluorobenzene	99	100	70-130	%	12.05.19 21:09

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference
$$\begin{split} [D] &= 100*(\text{C-A}) \, / \, B \\ RPD &= 200* \mid (\text{C-E}) \, / \, (\text{C+E}) \mid \\ [D] &= 100*(\text{C}) \, / \, [B] \end{split}$$

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

LCS = Laboratory Control Sample

A = Parent Result

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

Released to Imaging: 8/18/2025 2:58:10 PM

Final 1.000

-	
	XENCO
	LABORATORIES

Chain of Custody

Work Order No:	14517

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

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Project Manager:	Dan N	Voir				Bill to: (if diffe		10	e Littre							Work Order Comments									
Company Name:	LT En	vironme	ental, Inc	, Permian	office	Company N	ame:	XTC) Ener	gy						Program: UST/PST PRP Brownfields RC uperfund									
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City, State ZIP:	Midlar	nd, TX 7	9705			City, State 2	y, State ZIP: Carisbad, NM 88220											vel III	□'ST	T/UST	□RIR	р Пъ	el IV		
Phone:	432.23	36.3849			Emai	i: delval@te	MCPS and the second sec							0.000	erables:		100000000	30	ADaP			ther:	- L		
Project Name:	PLU	Bs 41	L Feder	rd Batter		urn Around	T			-											7.0001	_			
Project Number:	012	9190	36	- Centre	9	tine	1000	1	1			1	INALY	SIS R	EQUI	EST			T	_	1	+	Worl	Order	Notes
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Cooler Custody Seal	ls:	Yes (No			ction Factor:	- 0.2	Contain	6	8021	300.0)															
sample Custody Sea	_	Yes No			Containers:		of	1 804	A 0=	(EPA							- 1					TAT starts the day received I lab, if received by 4:30pr			evied by t
Sample Iden	tification	n	Matrix	Date Sampled	Time Sampled	Depth	Number	трн (ЕРА	BTEX (EPA 0=8021)	Chloride (EPA												H		le Comr	Correlated .
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Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xence, its affiliates and subcontractors. It assigns standard terms and coeditions of service. Xence 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 Xence. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xence, but not analyzed. These terms will be enferced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
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Analytical Report 645361

for

LT Environmental, Inc.

Project Manager: Dan Moir
PLU BS 11 Federal Battery
012918036
09-DEC-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)



09-DEC-19

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

Reference: XENCO Report No(s): 645361

PLU BS 11 Federal Battery

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 645361. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 645361 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vermer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 645361

LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS17	S	12-05-19 11:25	5 ft	645361-001
FS18	S	12-05-19 11:56	5 ft	645361-002
FS19	S	12-05-19 12:10	5 ft	645361-003
FS20	S	12-05-19 16:50	5 ft	645361-004
SW12	S	12-05-19 15:50	0 - 5 ft	645361-005
SW13	S	12-05-19 16:17	0 - 5 ft	645361-006

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU BS 11 Federal Battery

 Project ID:
 012918036
 Report Date:
 09-DEC-19

 Work Order Number(s):
 645361
 Date Received:
 12/06/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3109696 BTEX by EPA 8021B

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

Batch: LBA-3109699 Chloride by EPA 300

Lab Sample ID 645363-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 645361-001, -002, -003, -004, -005, -006.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analysis Summary 645361

LT Environmental, Inc., Arvada, CO Project Name: PLU BS 11 Federal Battery

Date Received in Lab: Fri Dec-06-19 08:30 am

Report Date: 09-DEC-19 **Project Manager:** Jessica Kramer

Project Id: 012918036 Contact: Dan Moir

Project Location:

	Lab Id:	645361-0	001	645361-	202	645361-	002	645361-	004	645361-	005	645361-	006
	Field Id:	FS17		FS18		FS19		FS20		043301- SW12		SW13	
Analysis Requested													
- -	Depth:	5- ft		5- ft		5- ft		5- ft		0-5 ft		0-5 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	_
	Sampled:	Dec-05-19	11:25	Dec-05-19 11:56		Dec-05-19	12:10	Dec-05-19 16:50		Dec-05-19 15:50		Dec-05-19	16:17
BTEX by EPA 8021B	Extracted:	Dec-06-19	11:00	Dec-06-19	Dec-06-19 11:00		11:00	Dec-06-19	11:00	Dec-06-19	11:00	Dec-06-19	11:00
	Analyzed:	Dec-06-19	15:05	Dec-06-19	Dec-06-19 15:24 Dec-06-19 15:43		15:43	Dec-06-19	16:02	Dec-06-19	17:06	Dec-06-19	17:25
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202
Toluene		< 0.00200			0.00199	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202
Ethylbenzene		<0.00200 0.00200		< 0.00199	0.00199	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202
,p-Xylenes		< 0.00399	0.00399	< 0.00398	0.00398	< 0.00403	0.00403	< 0.00399	0.00399	< 0.00402	0.00402	< 0.00404	0.00404
o-Xylene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202
Total Xylenes		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202
Total BTEX		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202
Chloride by EPA 300	Extracted:	Dec-06-19	11:00	Dec-06-19 11:00		Dec-06-19	11:00	Dec-06-19	11:00	Dec-06-19 11:00		Dec-06-19 11:00	
	Analyzed:	Dec-06-19	12:42	Dec-06-19	12:59	Dec-06-19	13:05	Dec-06-19	13:11	Dec-06-19	13:17	Dec-06-19	13:34
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		11.6	10.0	<9.98	9.98	< 9.92	9.92	<10.1	10.1	42.4	10.1	82.4	9.88
TPH by SW8015 Mod	Extracted:	Dec-06-19	13:00	Dec-06-19	13:00	Dec-06-19	13:00	Dec-06-19	15:50	Dec-06-19	15:50	Dec-06-19 15:5	
	Analyzed:	Dec-06-19	17:46	Dec-06-19	17:46	Dec-06-19	18:05	Dec-07-19	01:27	Dec-07-19	01:47	Dec-07-19	02:07
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	< 50.2	50.2	< 50.2	50.2	< 50.2	50.2	<50.3	50.3	< 50.0	50.0
Diesel Range Organics (DRO)		100	50.2	184	50.2	< 50.2	50.2	< 50.2	50.2	< 50.3	50.3	< 50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	< 50.2	50.2	< 50.2	50.2	< 50.2	50.2	<50.3	50.3	< 50.0	50.0
Total GRO-DRO		100	50.2	184	50.2	< 50.2	50.2	< 50.2	50.2	<50.3	50.3	< 50.0	50.0
Total TPH		100	50.2	184	50.2	< 50.2	50.2	< 50.2	50.2	< 50.3	50.3	< 50.0	50.0

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

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

Jessica Kramer

Jessica Kramer Project Assistant



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: **FS17**

Matrix: Soil Date Received:12.06.19 08.30

Lab Sample Id: 645361-001

Date Collected: 12.05.19 11.25

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

MAB Tech:

Analyst: MAB

Date Prep: 12.06.19 11.00 Basis:

Wet Weight

Seq Number: 3109699

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 10.0 12.07.19 13.11 11.6 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

DTH Analyst:

12.06.19 13.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	12.06.19 17.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	100	50.2		mg/kg	12.06.19 17.46		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	12.06.19 17.46	U	1
Total GRO-DRO	PHC628	100	50.2		mg/kg	12.06.19 17.46		1
Total TPH	PHC635	100	50.2		mg/kg	12.06.19 17.46		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	88	%	70-135	12.06.19 17.46		
o-Terphenyl		84-15-1	92	%	70-135	12.06.19 17.46		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS17 Matrix: Soil Date Received:12.06.19 08.30

Lab Sample Id: 645361-001 Date Collected: 12.05.19 11.25 Sample Depth: 5 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.06.19 11.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.06.19 15.05	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.06.19 15.05	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.06.19 15.05	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.06.19 15.05	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.06.19 15.05	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.06.19 15.05	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.06.19 15.05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	86	%	70-130	12.06.19 15.05		
4-Bromofluorobenzene		460-00-4	100	%	70-130	12.06.19 15.05		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS18

Matrix: Soil

Date Received:12.06.19 08.30

Lab Sample Id: 645361-002

Date Collected: 12.05.19 11.56

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

12.06.19 11.00

Basis:

Wet Weight

Seq Number: 3109699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	12.06.19 12.59	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

Analyst: DTH

Date Prep: 12.06.19 13.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	12.06.19 17.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	184	50.2		mg/kg	12.06.19 17.46		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	12.06.19 17.46	U	1
Total GRO-DRO	PHC628	184	50.2		mg/kg	12.06.19 17.46		1
Total TPH	PHC635	184	50.2		mg/kg	12.06.19 17.46		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-135	12.06.19 17.46		
o-Terphenyl		84-15-1	102	%	70-135	12.06.19 17.46		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS18 Matrix: Soil Date Received:12.06.19 08.30

Lab Sample Id: 645361-002 Date Collected: 12.05.19 11.56 Sample Depth: 5 ft

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

% Moisture:

Analyst: MAB Date Prep: 12.06.19 11.00 Basis: Wet Weight

Seq Number: 3109696

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	12.06.19 15.24	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	12.06.19 15.24	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	12.06.19 15.24	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	12.06.19 15.24	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	12.06.19 15.24	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	12.06.19 15.24	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	12.06.19 15.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	118	%	70-130	12.06.19 15.24		
1,4-Difluorobenzene		540-36-3	107	%	70-130	12.06.19 15.24		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Soil

Sample Id: **FS19** Matrix:

Lab Sample Id: 645361-003 Date Collected: 12.05.19 12.10 Date Received:12.06.19 08.30

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

Tech: MAB

Analyst: MAB

Date Prep: 12.06.19 11.00 Basis:

Wet Weight

Seq Number: 3109699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 9.92	9.92	mg/kg	12.06.19 13.05	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

12.06.19 13.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	12.06.19 18.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	12.06.19 18.05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	12.06.19 18.05	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	12.06.19 18.05	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	12.06.19 18.05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	12.06.19 18.05		
o-Terphenyl		84-15-1	93	%	70-135	12.06.19 18.05		

Wet Weight



Certificate of Analytical Results 645361

LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS19 Matrix: Soil Date Received:12.06.19 08.30

Lab Sample Id: 645361-003 Date Collected: 12.05.19 12.10 Sample Depth: 5 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.06.19 11.00 Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.06.19 15.43	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.06.19 15.43	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.06.19 15.43	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	12.06.19 15.43	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.06.19 15.43	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	12.06.19 15.43	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	12.06.19 15.43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	95	%	70-130	12.06.19 15.43		
4-Bromofluorobenzene		460-00-4	111	%	70-130	12.06.19 15.43		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Soil

Sample Id: **FS20** Matrix:

Lab Sample Id: 645361-004 Date Collected: 12.05.19 16.50 Date Received:12.06.19 08.30

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

MAB Tech: MAB Analyst: Date Prep: 12.06.19 11.00 Basis: Wet Weight

Seq Number: 3109699

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 <10.1 U 10.1 mg/kg 12.06.19 13.11 1

Analytical Method: TPH by SW8015 Mod

DTH

Tech:

DTH Analyst:

Seq Number: 3109776

Date Prep:

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight 12.06.19 15.50

Cas Number Result RL**Parameter** Units **Analysis Date** Flag Dil PHC610 <50.2 12.07.19 01.27 Gasoline Range Hydrocarbons (GRO) 50.2 mg/kg U 1 Diesel Range Organics (DRO) C10C28DRO < 50.2 50.2 mg/kg 12.07.19 01.27 U 1 Motor Oil Range Hydrocarbons (MRO) PHCG2835 < 50.2 50.2 12.07.19 01.27 U mg/kg Total GRO-DRO PHC628 < 50.2 50.2 mg/kg 12.07.19 01.27 U 1 Total TPH PHC635 50.2 12.07.19 01.27 U < 50.2 mg/kg 1 Flag

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	94	%	70-135	12.07.19 01.27
o-Terphenyl	84-15-1	89	%	70-135	12.07.19 01.27



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS20 Matrix: Soil Date Received:12.06.19 08.30

Lab Sample Id: 645361-004 Date Collected: 12.05.19 16.50 Sample Depth: 5 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.06.19 11.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.06.19 16.02	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.06.19 16.02	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.06.19 16.02	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.06.19 16.02	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.06.19 16.02	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.06.19 16.02	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.06.19 16.02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	117	%	70-130	12.06.19 16.02		
1,4-Difluorobenzene		540-36-3	102	%	70-130	12.06.19 16.02		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: SW12

Matrix: Soil

Date Received:12.06.19 08.30

Lab Sample Id: 645361-005

Date Collected: 12.05.19 15.50

Sample Depth: 0 - 5 ft
Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: MAB

Analyst:

MAB

Date Prep: 12.06.19 11.00

Basis:

Wet Weight

Seq Number: 3109699

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 42.4
 10.1
 mg/kg
 12.06.19 13.17
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

Analyst: DTH

Date Prep: 12.06.19 15.50

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	12.07.19 01.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	12.07.19 01.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	12.07.19 01.47	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	12.07.19 01.47	U	1
Total TPH	PHC635	< 50.3	50.3		mg/kg	12.07.19 01.47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	88	%	70-135	12.07.19 01.47		
o-Terphenyl		84-15-1	92	%	70-135	12.07.19 01.47		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: SW12 Matrix: Soil Date Received:12.06.19 08.30

Lab Sample Id: 645361-005 Date Collected: 12.05.19 15.50 Sample Depth: 0 - 5 ft

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

% Moisture:

Analyst: MAB Date Prep: 12.06.19 11.00 Basis: Wet Weight

Seq Number: 3109696

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	12.06.19 17.06	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	12.06.19 17.06	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	12.06.19 17.06	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	12.06.19 17.06	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	12.06.19 17.06	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	12.06.19 17.06	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	12.06.19 17.06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	108	%	70-130	12.06.19 17.06		
1,4-Difluorobenzene		540-36-3	85	%	70-130	12.06.19 17.06		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: SW13

Lab Sample Id: 645361-006

Matrix: Soil
Date Collected: 12.05.19 16.17

Date Received:12.06.19 08.30

Sample Depth: 0 - 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: MAB

Analyst:

MAB

Date Prep: 12.06.19 11.00

Basis:

Wet Weight

Seq Number: 3109699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	82.4	9.88	mg/kg	12.06.19 13.34		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:
Analyst:

DTH DTH

Date Prep: 12.06.19 15.50

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	12.07.19 02.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	12.07.19 02.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	12.07.19 02.07	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	12.07.19 02.07	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	12.07.19 02.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	80	%	70-135	12.07.19 02.07		
o-Terphenyl		84-15-1	85	%	70-135	12.07.19 02.07		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: SW13 Matrix: Soil Date Received:12.06.19 08.30

Lab Sample Id: 645361-006 Date Collected: 12.05.19 16.17 Sample Depth: 0 - 5 ft

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

% Moisture:

Analyst: MAB Date Prep: 12.06.19 11.00 Basis: Wet Weight

Seq Number: 3109696

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.06.19 17.25	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.06.19 17.25	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.06.19 17.25	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	12.06.19 17.25	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.06.19 17.25	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	12.06.19 17.25	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	12.06.19 17.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	120	%	70-130	12.06.19 17.25		
1.4-Difluorobenzene		540-36-3	103	%	70-130	12.06.19 17.25		



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.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.

Analysis



QC Summary 645361

LT Environmental, Inc.

PLU BS 11 Federal Battery

Analytical Method: Chloride by EPA 300

Seq Number: 3109699 Matrix: Solid

MR

LCS Sample Id: 7691886-1-BKS MB Sample Id: 7691886-1-BLK

Spike

LCS

LCSD

LCSD

E300P Prep Method:

%RPD RPD Limit Units

Prep Method:

Date Prep: 12.06.19

LCSD Sample Id: 7691886-1-BSD

Flag **Parameter** Result Amount Result %Rec Date %Rec Result 12.06.19 12:36 Chloride <10.0 250 263 105 265 106 90-110 20 mg/kg

LCS

Analytical Method: Chloride by EPA 300 Seq Number:

3109699

Matrix: Soil Date Prep: 12.06.19

Limits

Parent Sample Id: 645361-001 MS Sample Id: 645361-001 S MSD Sample Id: 645361-001 SD

Spike MS MS %RPD RPD Limit Units Parent **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec Chloride 11.6 201 185 86 184 86 90-110 20 mg/kg 12.06.19 12:48 X

Analytical Method: Chloride by EPA 300

Seq Number: 3109699 Matrix: Soil Prep Method:

E300P

E300P

Date Prep: 12.06.19

MS Sample Id: 645363-011 S Parent Sample Id: 645363-011

MSD Sample Id: 645363-011 SD

MS MS %RPD RPD Limit Units Parent Spike **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec Chloride <9.98 250 291 293 90-110 20 12.06.19 14:09 X 116 118 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number: 3109762 Matrix: Solid

7691873-1-BKS 7691873-1-BLK LCS Sample Id: MB Sample Id:

SW8015P Prep Method:

7691873-1-BSD

Flag

Date Prep: 12.06.19

LCSD Sample Id:

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

Gasoline Range Hydrocarbons (GRO) 882 88 835 70-135 5 12.06.19 16:06 < 50.0 1000 84 35 mg/kg 12.06.19 16:06 1060 1030 70-135 3 35 Diesel Range Organics (DRO) 1000 106 103 < 50.0 mg/kg

LCS LCSD MB MB LCS LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 1-Chlorooctane 127 134 132 70-135 % 12.06.19 16:06 12.06.19 16:06 o-Terphenyl 134 124 128 70-135 %

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

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

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

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result

= MSD/LCSD Result

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



QC Summary 645361

LT Environmental, Inc.

PLU BS 11 Federal Battery

7691883-1-BKS

Analytical Method: TPH by SW8015 Mod

3109776 Matrix: Solid

MB Sample Id: 7691883-1-BLK

Seq Number:

SW8015P Prep Method: Date Prep: 12.06.19

LCSD Sample Id: 7691883-1-BSD

Prep Method:

Prep Method:

Date Prep:

MB Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result Gasoline Range Hydrocarbons (GRO) 12.07.19 01:07 < 50.0 1000 913 91 879 88 70-135 4 35 mg/kg 35 12.07.19 01:07 Diesel Range Organics (DRO) 1000 1110 111 1120 112 70-135 < 50.0 mg/kg

LCS Sample Id:

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec %Rec Flag Flag %Rec Flag Date 12.07.19 01:07 1-Chlorooctane 128 123 108 70-135 % o-Terphenyl 135 123 135 70-135 % 12.07.19 01:07

Analytical Method: TPH by SW8015 Mod

Seq Number: 3109762 Matrix: Solid

MB Sample Id: 7691873-1-BLK

MB **Parameter** Result

Motor Oil Range Hydrocarbons (MRO) < 50.0 Units Analysis

SW8015P

12.06.19

12.06.19

SW8015P

Date 12.06.19 15:46 mg/kg

Flag

Analytical Method: TPH by SW8015 Mod

Seq Number: 3109776 Matrix: Solid

Date Prep:

MB Sample Id: 7691883-1-BLK

MB **Parameter** Result Units **Analysis** Flag Date

Motor Oil Range Hydrocarbons (MRO) 12.07.19 00:47 < 50.0 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number: 3109762

MS Sample Id: 645345-001 S Parent Sample Id: 645345-001

Prep Method: SW8015P

Date Prep: 12.06.19 MSD Sample Id: 645345-001 SD

%RPD RPD Limit Units MS Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 12.06.19 16:26 <49.9 998 834 84 1040 104 70-135 22 35 mg/kg 1020 70-135 12.06.19 16:26 Diesel Range Organics (DRO) <49.9 998 102 1240 124 19 35 mg/kg

Matrix: Soil

MS MS **MSD** Limits Units Analysis **MSD Surrogate** %Rec Flag Flag Date %Rec 12.06.19 16:26 1-Chlorooctane 108 130 70-135 % o-Terphenyl 107 122 70-135 % 12.06.19 16:26

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

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

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

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result

= MSD/LCSD Result

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



QC Summary 645361

LT Environmental, Inc.

PLU BS 11 Federal Battery

Analytical Method: TPH by SW8015 Mod

645361-004

Seq Number: 3109776 Matrix: Soil

MS Sample Id: 645361-004 S

Prep Method: SW8015P

Date Prep: 12.06.19

MSD Sample Id: 645361-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	< 50.3	1010	961	95	1000	101	70-135	4	35	mg/kg	12.07.19 01:27	
Diesel Range Organics (DRO)	< 50.3	1010	1180	117	1170	118	70-135	1	35	mg/kg	12.07.19 01:27	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	123		131		70-135	%	12.07.19 01:27
o-Terphenyl	123		120		70-135	%	12.07.19 01:27

Analytical Method: BTEX by EPA 8021B

3109696

Matrix: Solid

Prep Method:

Limits

SW5030B

Flag

Flag

Date Prep: 12.06.19

MB Sample Id:

Seq Number:

Parent Sample Id:

7691892-1-BLK

LCS Sample Id: 7691892-1-BKS

LCSD Sample Id: 7691892-1-BSD

Unite

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date
Benzene	< 0.00200	0.100	0.0980	98	0.0912	91	70-130	7	35	mg/kg	12.06.19 11:29
Toluene	< 0.00200	0.100	0.0989	99	0.0940	94	70-130	5	35	mg/kg	12.06.19 11:29
Ethylbenzene	< 0.00200	0.100	0.0984	98	0.0939	94	71-129	5	35	mg/kg	12.06.19 11:29
m,p-Xylenes	< 0.00400	0.200	0.207	104	0.199	100	70-135	4	35	mg/kg	12.06.19 11:29
o-Xylene	< 0.00200	0.100	0.104	104	0.0997	100	71-133	4	35	mg/kg	12.06.19 11:29

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag	23111145	01110	Date
1,4-Difluorobenzene	102		103		101		70-130	%	12.06.19 11:29
4-Bromofluorobenzene	105		114		117		70-130	%	12.06.19 11:29

LCS

LCS

Analytical Method: BTEX by EPA 8021B

3109696

MB

MB

Matrix: Soil

Prep Method: SW5030B Date Prep:

12.06.19

Analysis

Seq Number: MS Sample Id: 645345-001 S MSD Sample Id: 645345-001 SD 645345-001 Parent Sample Id:

Parameter	Parent Result	Spike Amount	Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	KPD Limi	t Units	Analysis Date	
Benzene	< 0.00201	0.100	0.104	104	0.0986	99	70-130	5	35	mg/kg	12.06.19 12:07	
Toluene	< 0.00201	0.100	0.106	106	0.0994	100	70-130	6	35	mg/kg	12.06.19 12:07	
Ethylbenzene	< 0.00201	0.100	0.104	104	0.0978	98	71-129	6	35	mg/kg	12.06.19 12:07	
m,p-Xylenes	< 0.00402	0.201	0.221	110	0.206	104	70-135	7	35	mg/kg	12.06.19 12:07	
o-Xylene	< 0.00201	0.100	0.112	112	0.104	104	71-133	7	35	mg/kg	12.06.19 12:07	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		103		70-130	%	12.06.19 12:07
4-Bromofluorobenzene	120		117		70-130	%	12.06.19 12:07

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

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

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

LCS = Laboratory Control Sample

A = Parent Result

C = MS/LCS Result E = MSD/LCSD Result

LCSD

LCSD

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

Work Order No: __ U45 3Le



Chain of Custody

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

Project Manager:	Dan Moir				Bill to: (r drift			e Littre				3330/	- Consideration	(01	020-20	2001			v.xenco	-		_U
Company Name:	LT Environ	mental, Inc	c., Permian	office	Company N	-0.00		O Ener						\neg	Per						Comments	
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City, State ZIP:	Midland, T	79705			City, State 2	IP-	10000		NM 88	35345										Ther	NUST □RRP □N	
Phone:	432.236.38	49		Ema	it: Idelval@ite		-	isoau,	IVM OC	220						erable					T Other:	vei IV
Project Name:	PL4 BS	11 Fest	eral Butte		Turn Around	T										01,0010				W. All		
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service. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 chromatances beyond the control Xenco. A minimum charge of \$76.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. Those terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	1-9	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
har Polls	Rale Map	13/06/19 @0820	Bales Mily	P	126/19 08=30
			/	7	

Analytical Report 645537

for

LT Environmental, Inc.

Project Manager: Dan Moir
PLU BS 11 Federal Batterry
012918036
10-DEC-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)



10-DEC-19

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

Reference: XENCO Report No(s): 645537

PLU BS 11 Federal Batterry

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 645537. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 645537 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vermer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Sample Cross Reference 645537

LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Batterry

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	12-06-19 12:45	6 ft	645537-001
PH01A	S	12-06-19 13:25	8 ft	645537-002
PH01B	S	12-06-19 15:27	3 ft	645537-003
PH02	S	12-06-19 14:48	2 ft	645537-004
PH02A	S	12-06-19 14:50	4 ft	645537-005
PH02B	S	12-06-19 15:05	8 ft	645537-006

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU BS 11 Federal Batterry

 Project ID:
 012918036
 Report Date:
 10-DEC-19

 Work Order Number(s):
 645537
 Date Received:
 12/09/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3109891 BTEX by EPA 8021B

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



Certificate of Analysis Summary 645537

LT Environmental, Inc., Arvada, CO

Project Name: PLU BS 11 Federal Batterry

Date Received in Lab: Mon Dec-09-19 10:15 am

Report Date: 10-DEC-19 **Project Manager:** Jessica Kramer

Project Id: 012918036 Contact: Dan Moir

Project Location:

	Lab Id:	645537-0	001	645537-0	002	645537-0	003	645537-	004	645537-	005	645537-0	006
Analysis Requested	Field Id:	PH01		PH01A	A	PH01I	3	PH02	2	PH02.	A	PH021	В
Analysis Requesieu	Depth:	6- ft		8- ft		3- ft		2- ft		4- ft		8- ft	
	Matrix:	SOIL	,	SOIL		SOIL		SOIL	,	SOIL	_	SOIL	,
	Sampled:	Dec-06-19	12:45	Dec-06-19	13:25	Dec-06-19	15:27	Dec-06-19	14:48	Dec-06-19	14:50	Dec-06-19	15:05
BTEX by EPA 8021B	Extracted:	** ** **	**	** ** **	**	** ** **	**	** ** **	**	** ** **	**	** ** **	**
	Analyzed:	Dec-09-19	17:42	Dec-09-19	18:01	Dec-09-19	18:20	Dec-09-19	18:39	Dec-09-19	18:58	Dec-09-19	19:18
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00198	0.00198
Toluene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00198	0.00198
Ethylbenzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00198	0.00198
m,p-Xylenes		< 0.00398	0.00398	< 0.00397	0.00397	< 0.00397	0.00397	< 0.00396	0.00396	< 0.00400	0.00400	< 0.00396	0.00396
o-Xylene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00198	0.00198
Total Xylenes		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00198	0.00198
Total BTEX		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00198	0.00198
Chloride by EPA 300	Extracted:	Dec-09-19	16:10	Dec-09-19	16:10	Dec-09-19	16:10	Dec-09-19	16:10	Dec-09-19	16:10	Dec-09-19	16:10
	Analyzed:	Dec-09-19	19:20	Dec-09-19	19:26	Dec-09-19	19:32	Dec-09-19	19:49	Dec-09-19	19:55	Dec-09-19	20:01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		71.3	9.88	304	10.0	110	9.98	157	9.96	303	9.98	397	9.88
TPH by SW8015 Mod	Extracted:	Dec-09-19	15:30	Dec-09-19	15:30	Dec-09-19	15:30	Dec-09-19	15:30	Dec-09-19	15:30	Dec-09-19	15:30
	Analyzed:	Dec-09-19	21:30	Dec-09-19	21:50	Dec-09-19	21:50	Dec-09-19	22:11	Dec-09-19	22:31	Dec-09-19	22:31
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	< 50.0	50.0	<49.9	49.9	< 50.0	50.0	< 50.1	50.1	<50.3	50.3
Diesel Range Organics (DRO)		< 50.2	50.2	< 50.0	50.0	<49.9	49.9	< 50.0	50.0	<50.1	50.1	< 50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		< 50.2	50.2	< 50.0	50.0	<49.9	49.9	< 50.0	50.0	<50.1	50.1	< 50.3	50.3
Total GRO-DRO		<50.2	50.2	< 50.0	50.0	<49.9	49.9	< 50.0	50.0	<50.1	50.1	< 50.3	50.3
Total TPH		<50.2	50.2	< 50.0	50.0	<49.9	49.9	< 50.0	50.0	<50.1	50.1	< 50.3	50.3

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

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

Jessica Kramer

Jessica Kramer Project Assistant



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Batterry

Sample Id: **PH01** Matrix: Soil Date Received:12.09.19 10.15

Lab Sample Id: 645537-001

Date Collected: 12.06.19 12.45

Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

Chloride

MAB

Date Prep: 12.09.19 16.10

9.88

Basis:

Wet Weight

Analyst: MAB

Seq Number: 3109906

Parameter Cas Number

16887-00-6

Result RL

71.3

Units

mg/kg

Flag

Dil

1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Analysis Date

12.09.19 19.20

% Moisture:

Tech: Analyst:

DTH DTH

12.09.19 15.30 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	12.09.19 21.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	12.09.19 21.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	12.09.19 21.30	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	12.09.19 21.30	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	12.09.19 21.30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-135	12.09.19 21.30		
o-Terphenyl		84-15-1	110	%	70-135	12.09.19 21.30		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Batterry

Sample Id: PH01 Matrix: Soil Date Received:12.09.19 10.15

Lab Sample Id: 645537-001 Date Collected: 12.06.19 12.45 Sample Depth: 6 ft

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

% Moisture:

Analyst: MAB Date Prep: 12.09.19 08.50 Basis: Wet Weight

Seq Number: 3109891

MAB

Tech:

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	12.09.19 17.42	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	12.09.19 17.42	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	12.09.19 17.42	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	12.09.19 17.42	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	12.09.19 17.42	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	12.09.19 17.42	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	12.09.19 17.42	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	109	%	70-130	12.09.19 17.42		
1,4-Difluorobenzene		540-36-3	97	%	70-130	12.09.19 17.42		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Batterry

Sample Id: PH01A

Matrix: Soil

Date Received:12.09.19 10.15

Lab Sample Id: 645537-002

Date Collected: 12.06.19 13.25

Sample Depth: 8 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

12.09.19 16.10

Basis:

Wet Weight

Seq Number: 3109906

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	304	10.0	mg/kg	12.09.19 19.26		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep: 12.09.19 15.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	12.09.19 21.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	12.09.19 21.50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	12.09.19 21.50	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	12.09.19 21.50	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	12.09.19 21.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-135	12.09.19 21.50		
o-Terphenyl		84-15-1	104	%	70-135	12.09.19 21.50		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Batterry

Sample Id: PH01A Matrix: Soil Date Received:12.09.19 10.15

Lab Sample Id: 645537-002 Date Collected: 12.06.19 13.25 Sample Depth: 8 ft

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

% Moisture:

Analyst: MAB Date Prep: 12.09.19 08.50 Basis: Wet Weight

Seq Number: 3109891

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.09.19 18.01	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.09.19 18.01	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.09.19 18.01	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	12.09.19 18.01	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.09.19 18.01	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.09.19 18.01	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.09.19 18.01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	119	%	70-130	12.09.19 18.01		
1.4-Difluorobenzene		540-36-3	105	%	70-130	12.09.19 18.01		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Batterry

Sample Id: PH01B

Matrix: Soil

Result

110

Date Prep:

Date Received:12.09.19 10.15

Lab Sample Id: 645537-003

Date Collected: 12.06.19 15.27

Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

Basis:

Wet Weight

Seq Number: 3109906

Parameter Cas Number
Chloride 16887-00-6

RL

9.98

12.09.19 16.10

12.09.19 15.30

Units Analysis Date

mg/kg

Flag Dil

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

12.09.19 19.32

Tech:

DTH

% Moisture:

Basis: Wet Weight

Analyst: DTH

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	12.09.19 21.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	12.09.19 21.50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	12.09.19 21.50	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	12.09.19 21.50	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	12.09.19 21.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	12.09.19 21.50		
o-Terphenyl		84-15-1	107	%	70-135	12.09.19 21.50		



Lab Sample Id: 645537-003

Analytical Method: BTEX by EPA 8021B

Certificate of Analytical Results 645537

LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Batterry

PH01B Sample Id: Matrix: Soil

> Date Collected: 12.06.19 15.27 Sample Depth: 3 ft

Prep Method: SW5030B

Date Received:12.09.19 10.15

% Moisture:

Tech: MAB Analyst: MAB 12.09.19 08.50 Basis: Wet Weight Date Prep:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.09.19 18.20	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.09.19 18.20	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.09.19 18.20	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	12.09.19 18.20	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.09.19 18.20	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.09.19 18.20	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.09.19 18.20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.09.19 18.20		
4-Bromofluorobenzene		460-00-4	119	%	70-130	12.09.19 18.20		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Batterry

Sample Id: **PH02** Matrix: Soil

Date Received:12.09.19 10.15

Lab Sample Id: 645537-004 Date Collected: 12.06.19 14.48 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

MAB

Prep Method: E300P

MAB % Moisture:

Seq Number: 3109906

Tech:

Analyst:

Date Prep: 12.09.19 16.10

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	157	9.96	mg/kg	12.09.19 19.49		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

12.09.19 15.30 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	12.09.19 22.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	12.09.19 22.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	12.09.19 22.11	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	12.09.19 22.11	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	12.09.19 22.11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	100	%	70-135	12.09.19 22.11		
o-Terphenyl		84-15-1	101	%	70-135	12.09.19 22.11		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Batterry

Sample Id: PH02 Matrix: Soil Date Received:12.09.19 10.15

Lab Sample Id: 645537-004 Date Collected: 12.06.19 14.48 Sample Depth: 2 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.09.19 08.50 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.09.19 18.39	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.09.19 18.39	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.09.19 18.39	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	12.09.19 18.39	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.09.19 18.39	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.09.19 18.39	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.09.19 18.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	12.09.19 18.39		
4-Bromofluorobenzene		460-00-4	122	%	70-130	12.09.19 18.39		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Batterry

Sample Id: PH02A Matrix: Soil

Date Received:12.09.19 10.15

Lab Sample Id: 645537-005 Date Collected: 12.06.19 14.50 Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

Tech: MAB

Analyst: MAB Date Prep: 12.09.19 16.10 Basis: Wet Weight

Seq Number: 3109906

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	303	9.98	mg/kg	12.09.19 19.55		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

12.09.19 15.30 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	12.09.19 22.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	12.09.19 22.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	12.09.19 22.31	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	12.09.19 22.31	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	12.09.19 22.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	103	%	70-135	12.09.19 22.31		
o-Terphenyl		84-15-1	104	%	70-135	12.09.19 22.31		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Batterry

Sample Id: PH02A Matrix: Soil Date Received:12.09.19 10.15

Lab Sample Id: 645537-005 Date Collected: 12.06.19 14.50 Sample Depth: 4 ft

Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.09.19 08.50 Basis: Wet Weight

Seq Number: 3109891

Analytical Method: BTEX by EPA 8021B

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.09.19 18.58	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.09.19 18.58	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.09.19 18.58	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	12.09.19 18.58	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.09.19 18.58	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.09.19 18.58	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.09.19 18.58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	12.09.19 18.58		
4-Bromofluorobenzene		460-00-4	115	%	70-130	12.09.19 18.58		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Batterry

Sample Id: PH02B

Lab Sample Id: 645537-006

Analytical Method: Chloride by EPA 300

Matrix: Soil Date Received:12.09.19 10.15

Date Collected: 12.06.19 15.05

Sample Depth: 8 ft

Prep Method: E300P

% Moisture:

Wet Weight

Tech: MAB

Analyst: MAB

Seq Number: 3109906

Date Prep: 12.09.19 16.10 Basis:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	397	9.88	mg/kg	12.09.19 20.01		1

Analytical Method: TPH by SW8015 Mod

DTH

DTH Analyst:

Tech:

12.09.19 15.30 Date Prep:

% Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	12.09.19 22.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	12.09.19 22.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	12.09.19 22.31	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	12.09.19 22.31	U	1
Total TPH	PHC635	< 50.3	50.3		mg/kg	12.09.19 22.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-135	12.09.19 22.31		
o-Terphenyl		84-15-1	106	%	70-135	12.09.19 22.31		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Batterry

Sample Id: PH02B Matrix: Soil Date Received:12.09.19 10.15

Lab Sample Id: 645537-006 Date Collected: 12.06.19 15.05 Sample Depth: 8 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.09.19 08.50 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.09.19 19.18	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.09.19 19.18	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.09.19 19.18	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	12.09.19 19.18	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.09.19 19.18	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.09.19 19.18	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.09.19 19.18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.09.19 19.18		
4-Bromofluorobenzene		460-00-4	121	%	70-130	12.09.19 19.18		



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.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 645537

LT Environmental, Inc.

PLU BS 11 Federal Batterry

Analytical Method: Chloride by EPA 300

Seq Number: 3109906 Matrix: Solid

MR

LCS Sample Id: 7692026-1-BKS MB Sample Id: 7692026-1-BLK

E300P Prep Method:

Date Prep: 12.09.19

LCSD Sample Id: 7692026-1-BSD

Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result 12.09.19 18:00 Chloride <10.0 250 260 104 263 105 90-110 20 mg/kg

Analytical Method: Chloride by EPA 300

3109906 Matrix: Soil

12.09.19 Date Prep:

Prep Method:

Seq Number: Parent Sample Id: 645522-001 MS Sample Id: 645522-001 S MSD Sample Id: 645522-001 SD

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

Chloride 6.14 199 210 102 209 102 90-110 0 20 mg/kg 12.09.19 18:17

Analytical Method: Chloride by EPA 300

3109906 Matrix: Soil Seq Number:

Prep Method:

E300P

E300P

Date Prep: 12.09.19

MS Sample Id: MSD Sample Id: 645537-003 SD 645537-003 S Parent Sample Id: 645537-003

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec Chloride 110 199 327 109 328 90-110 0 20 12.09.19 19:38 110 mg/kg

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method: 3109933 Matrix: Solid Seq Number: Date Prep: 12.09.19

7692045-1-BKS LCSD Sample Id: LCS Sample Id: 7692045-1-BSD MB Sample Id: 7692045-1-BLK

%RPD RPD Limit Units MB Spike LCS LCS Limits Analysis LCSD LCSD Flag **Parameter** Result %Rec Date Result Amount %Rec Result Gasoline Range Hydrocarbons (GRO) 996 100 70-135 0 12.09.19 19:49 <13.9 1000 999 35 100 mg/kg 12.09.19 19:49 70-135 35 Diesel Range Organics (DRO) 1000 1110 111 1050 105 6 <11.5 mg/kg

LCS MB MB LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 1-Chlorooctane 106 121 119 70-135 % 12.09.19 19:49 12.09.19 19:49 o-Terphenyl 108 124 112 70-135 %

Analytical Method: TPH by SW8015 Mod

Prep Method: Seq Number: 3109933 Matrix: Solid Date Prep: 12.09.19

MB Sample Id: 7692045-1-BLK

MB Units Analysis Flag **Parameter** Result Date 12.09.19 19:49 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

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

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

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

LCS = Laboratory Control Sample

A = Parent Result = MS/LCS Result

= MSD/LCSD Result

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

SW8015P

Flag

Flag



Seq Number:

QC Summary 645537

LT Environmental, Inc.

PLU BS 11 Federal Batterry

Analytical Method: TPH by SW8015 Mod

3109933 Matrix: Soil

MS Sample Id: 645527-020 S Parent Sample Id: 645527-020

SW8015P Prep Method:

Date Prep: 12.09.19

MSD Sample Id: 645527-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP	D RPD Lim	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<13.9	1000	985	99	957	96	70-135	3	35	mg/kg	12.09.19 20:29	
Diesel Range Organics (DRO)	<11.5	1000	1020	102	1060	106	70-135	4	35	mg/kg	12.09.19 20:29	
				1S 1	MS	MCT	MSI	n	Limite	Unite	Analycic	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	122		116		70-135	%	12.09.19 20:29
o-Terphenyl	115		118		70-135	%	12.09.19 20:29

Analytical Method: BTEX by EPA 8021B

Seq Number: 3109891 Matrix: Solid MB Sample Id:

7692016-1-BLK

SW5030B Prep Method:

Date Prep: 12.09.19

LCS Sample Id: 7692016-1-BKS LCSD Sample Id: 7692016-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lin	it Units	Analysis Date
Benzene	< 0.00200	0.100	0.102	102	0.0914	91	70-130	11	35	mg/kg	12.09.19 10:47
Toluene	< 0.00200	0.100	0.104	104	0.0922	92	70-130	12	35	mg/kg	12.09.19 10:47
Ethylbenzene	< 0.00200	0.100	0.104	104	0.0913	91	71-129	13	35	mg/kg	12.09.19 10:47
m,p-Xylenes	< 0.00400	0.200	0.220	110	0.194	97	70-135	13	35	mg/kg	12.09.19 10:47
o-Xylene	< 0.00200	0.100	0.111	111	0.0975	98	71-133	13	35	mg/kg	12.09.19 10:47
_	MB	MB	I.	CS I	.CS	LCSI	n LCS	D L	imits	Units	Analysis

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag	Limits	Cints	Date
1,4-Difluorobenzene	102		103		101		70-130	%	12.09.19 10:47
4-Bromofluorobenzene	107		116		115		70-130	%	12.09.19 10:47

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B Seq Number: 3109891 Matrix: Soil Date Prep: 12.09.19 MS Sample Id: 645473-001 S MSD Sample Id: 645473-001 SD Parent Sample Id: 645473-001

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date
Benzene	< 0.00200	0.100	0.0936	94	0.0775	78	70-130	19	35	mg/kg	12.09.19 11:25
Toluene	< 0.00200	0.100	0.0987	99	0.0768	77	70-130	25	35	mg/kg	12.09.19 11:25
Ethylbenzene	< 0.00200	0.100	0.0988	99	0.0740	74	71-129	29	35	mg/kg	12.09.19 11:25
m,p-Xylenes	< 0.00400	0.200	0.206	103	0.151	76	70-135	31	35	mg/kg	12.09.19 11:25
o-Xylene	< 0.00200	0.100	0.106	106	0.0784	79	71-133	30	35	mg/kg	12.09.19 11:25

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		102		70-130	%	12.09.19 11:25
4-Bromofluorobenzene	121		118		70-130	%	12.09.19 11:25

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

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

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

LCS = Laboratory Control Sample

A = Parent Result C = MS/LCS Result

E = MSD/LCSD Result

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

Released to Imaging: 8/18/2025 2:58:10 PM

-	VENICO
	XENCO
	LABORATORIES

Chain of Custody

Work Order No: 645537

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

Project Manager:	Dan Moir				Bill to: (if diff	eront)	Kyle	Littrell	15							W	ork Orde	er Co	mments		
Company Name:	LT Environm	ental, Inc	, Permian	office	Company N	lame:	XTO Energy						Program:	UST/P	ST P	P Brow	wnfie	lds RC Duper	rfund		
Address:	3300 North A	Street			Address:		3104 E Green Street						State of Project:								
City, State ZIP:	Midland, TX	79705			City, State 2	ZIP:	Carlsbad, NM 88220						Reporting:Level II evel III ST/UST RRP evel IV							IV 🗌	
Phone:	432.236.3849	9		Email	: Idelval@lte	env.cor	com							Deliverabl	es: ED	D 🗆	AD	aPT	Other:		
Project Name:	PLU BS	11 F	ident Brott	eny T	urn Around	Around ANALYSIS REQU							QUES	UEST					Work Order Notes		
Project Number:	018918			Rou		RI		Т	T			T						1			
.O. Number:				TAT DE CONTRACTOR	1: 24H																
Sampler's Name:	Benjamin Bet	# Luis	Del Vo		Date:																
SAMPLE RECE	IPT T	omo Blank	Yes No	Mot Inc	Yes No							1 1									
emperature (°C):	1 ()		Thermomete		5					1										
eceived Intact:	Xes	No		TNMOO		ti ii		E.	300.0)							П					
ooler Custody Seal	s: Yes (N/A	Corre	ection Factor		Co	8015)	0=8021)	A 30							1 1		-	TAT starts the day rece	neind by the	
ample Custody Sea	ls: Yes (O N/A	Tota	al Containers:	6	rof	A 80	(EPA 0	(EPA								lab, if received by 4:30pm				
Sample Iden	tification	Matrix	Date Sampled	Time Sampled	Depth	Numbo	трн (ЕРА	втех (в	Chloride										Sample Comm	ents	
PH01		S	12/5/2014	1245	6'	11	X	X	X												
HU1A			1	1325	8'	1	1	1	1												
HO1B				1527	3'																
7H02				1448	2'																
HU2A				1450	4'	Ц,			1	0.7											
H02B		V	V	1505	81	V	V	V	V												
																			11.		
													-								

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be itable 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 Xenco. A minimum charge of \$76.00 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 proviously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 har RAVA	Whithy	12/9/2019	2 Ellisting	70	1291910:15
5	1		6	6	

Analytical Report 645892

for

LT Environmental, Inc.

Project Manager: Dan Moir
PLU BS 11 Federal Battery
012918036
08-JAN-20

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)



08-JAN-20

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

Reference: XENCO Report No(s): 645892

PLU BS 11 Federal Battery

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 645892. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 645892 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vermer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 645892

LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS15A	S	12-10-19 10:26	7 ft	645892-001
FS16A	S	12-10-19 10:42	7 ft	645892-002
FS18A	S	12-10-19 11:26	7 ft	645892-003
FS21	S	12-10-19 15:28	6 ft	645892-004
FS22	S	12-10-19 15:59	6 ft	645892-005
FS23	S	12-10-19 16:15	6 ft	645892-006
FS24	S	12-10-19 16:20	6 ft	645892-007
FS25	S	12-10-19 16:30	6 ft	645892-008
FS26	S	12-10-19 16:45	6 ft	645892-009
SW14	S	12-10-19 14:59	0 - 6 ft	645892-010
SW15	S	12-10-19 15:10	0 - 6 ft	645892-011

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU BS 11 Federal Battery

 Project ID:
 012918036
 Report Date:
 08-JAN-20

 Work Order Number(s):
 645892
 Date Received:
 12/11/2019

Sample receipt non conformances and comments:

Per clients email, corrected sample names as follows below. JK 01/08/2020

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3110217 BTEX by EPA 8021B

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



Certificate of Analysis Summary 645892

LT Environmental, Inc., Arvada, CO

Project Name: PLU BS 11 Federal Battery

Date Received in Lab: Wed Dec-11-19 12:20 pm

Report Date: 08-JAN-20 Project Manager: Jessica Kramer

Project Id: 012918036 **Contact:** Dan Moir

Project Location:

	Lab Id:	645892-0	001	645892-0	002	645892-0	003	645892-	004	645892-	005	645892-0	006
Analysis Requested	Field Id:	FS15A	A	FS16A	FS16A		FS18A		FS21		FS22		
Anaiysis Requesieu	Depth:	7- ft		7- ft	ft 7- ft			6- ft		6- ft		6- ft	
	Matrix:	SOIL	SOIL		,	SOIL		SOIL		SOIL		SOIL	,
	Sampled:	Dec-10-19	10:26	Dec-10-19	10:42	Dec-10-19	11:26	Dec-10-19 15:28		Dec-10-19	15:59	Dec-10-19	16:15
BTEX by EPA 8021B	Extracted:	Dec-11-19	Dec-11-19 13:00		13:00	Dec-11-19	13:00	Dec-11-19 13:00		Dec-11-19 13:00		Dec-11-19 13:00	
	Analyzed:	Dec-11-19	18:04	Dec-11-19	18:23	Dec-11-19	18:42	Dec-11-19	19:01	Dec-11-19	19:20	Dec-11-19	20:24
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Toluene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Ethylbenzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
m,p-Xylenes		< 0.00403	0.00403	< 0.00399	0.00399	< 0.00401	0.00401	< 0.00401	0.00401	< 0.00403	0.00403	< 0.00399	0.00399
o-Xylene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Total Xylenes		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Total BTEX		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Chloride by EPA 300	Extracted:	Dec-12-19	08:40	Dec-12-19 08:40 Dec-1		Dec-12-19	Dec-12-19 08:40 Dec-12-19 08:40		08:40	Dec-12-19	08:40	Dec-12-19 08:40	
	Analyzed:	Dec-12-19	09:21	Dec-12-19	9 09:27 Dec-12-19 09:32		09:32	Dec-12-19 09:38		Dec-12-19	09:44	Dec-12-19 09:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		13.1	9.98	10.5	9.96	<9.98	9.98	<9.92	9.92	<9.94	9.94	<9.96	9.96
TPH by SW8015 Mod	Extracted:	Dec-11-19	16:40	Dec-11-19	16:40	Dec-11-19	16:40	Dec-11-19	16:40	Dec-11-19	16:40	Dec-11-19	16:40
	Analyzed:	Dec-12-19	10:25	Dec-11-19	19:01	Dec-12-19	10:25	Dec-11-19	19:21	Dec-11-19	19:21	Dec-11-19	19:41
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	<50.3	50.3	< 50.1	50.1	< 50.1	50.1	<49.8	49.8	< 50.0	50.0
Diesel Range Organics (DRO)		95.9	50.2	<50.3	50.3	84.7	50.1	< 50.1	50.1	<49.8	49.8	< 50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		< 50.2	50.2	<50.3	50.3	< 50.1	50.1	< 50.1	50.1	<49.8	49.8	< 50.0	50.0
Total GRO-DRO		95.9	50.2	<50.3	50.3	84.7	50.1	< 50.1	50.1	<49.8	49.8	< 50.0	50.0
Total TPH		95.9	50.2	<50.3	50.3	84.7	50.1	< 50.1	50.1	<49.8	49.8	< 50.0	50.0

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

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Jessica Kramer Project Assistant Certificate of Analysis Summary 645892 LT Environmental, Inc., Arvada, CO

Project Name: PLU BS 11 Federal Battery

Date Received in Lab: Wed Dec-11-19 12:20 pm

Report Date: 08-JAN-20 Project Manager: Jessica Kramer

Project Id: 012918036 **Contact:** Dan Moir

Project Location:

		645000	007	£45000 A	200	645000	200	645000	210	645000	011	
	Lab Id:	645892-0	JU /	645892-0	108	645892-0		645892-0 SW14		645892-		
Analysis Requested	Field Id:	FS24		FS25	FS25		FS26			SW1	5	
Thurshis Requested	Depth:	6- ft		6- ft	6- ft		6- ft			0-6 f	t	
	Matrix:	SOIL	SOIL			SOIL		SOIL		SOIL		
	Sampled:	Dec-10-19	16:20	Dec-10-19	16:30	Dec-10-19	16:45	Dec-10-19 14:59		Dec-10-19	15:10	
BTEX by EPA 8021B	Extracted:	Dec-11-19	13:00	Dec-11-19	13:00	Dec-11-19	13:00	Dec-11-19	13:00	Dec-11-19	13:00	
	Analyzed:	Dec-11-19	20:43	Dec-11-19	21:02	Dec-11-19	21:21	Dec-11-19	21:40	Dec-11-19	22:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene	,	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	
Toluene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	
Ethylbenzene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	
m,p-Xylenes		< 0.00401	0.00401	< 0.00403	0.00403	< 0.00400	0.00400	< 0.00404	0.00404	< 0.00402	0.00402	
o-Xylene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	
Total Xylenes		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	
Total BTEX		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	
Chloride by EPA 300	Extracted:	Dec-12-19	08:40	Dec-12-19	08:40	Dec-12-19	08:40	Dec-12-19	08:40	Dec-12-19	08:40	
	Analyzed:	Dec-12-19	10:19	Dec-12-19	10:35	Dec-12-19	10:41	Dec-12-19	10:47	Dec-12-19	10:53	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		< 9.96	9.96	<9.98	9.98	<9.92	9.92	13.0	9.88	<9.88	9.88	
TPH by SW8015 Mod	Extracted:	Dec-11-19	16:40	Dec-11-19 16:40		Dec-11-19	16:40	Dec-11-19	16:40	Dec-11-19	16:40	
	Analyzed:	Dec-11-19	20:01	Dec-11-19	20:01	Dec-11-19	20:21	Dec-11-19	20:21	Dec-11-19	20:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)	'	<49.9	49.9	<49.8	49.8	<49.9	49.9	<50.3	50.3	<49.8	49.8	
Diesel Range Organics (DRO)		<49.9	49.9	<49.8	49.8	<49.9	49.9	< 50.3	50.3	58.4	49.8	
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.8	49.8	<49.9	49.9	<50.3	50.3	<49.8	49.8	
Total GRO-DRO		<49.9	49.9	<49.8	49.8	<49.9	49.9	<50.3	50.3	58.4	49.8	
Total TPH		<49.9	49.9	<49.8	49.8	<49.9	49.9	< 50.3	50.3	58.4	49.8	

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

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Version: 1.%

fession Weamer Jessica Kramer Project Assistant

1



Certificate of Analytical Results 645892

LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS15A Matrix: Soil Date Received:12.11.19 12.20

Lab Sample Id: 645892-001

Date Collected: 12.10.19 10.26

Sample Depth: 7 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

Basis: 12.12.19 08.40

Wet Weight

Seq Number: 3110256

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 12.12.19 09.21 13.1 9.98 mg/kg

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

DTH Analyst:

12.11.19 16.40 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	12.12.19 10.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	95.9	50.2		mg/kg	12.12.19 13.35		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	12.12.19 10.25	U	1
Total GRO-DRO	PHC628	95.9	50.2		mg/kg	12.12.19 13.35		1
Total TPH	PHC635	95.9	50.2		mg/kg	12.12.19 13.35		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	112	%	70-135	12.12.19 10.25		
o-Terphenyl		84-15-1	113	%	70-135	12.12.19 10.25		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS15A Matrix: Soil Date Received:12.11.19 12.20

Lab Sample Id: 645892-001 Date Collected: 12.10.19 10.26 Sample Depth: 7 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.11.19 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.11.19 18.04	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.11.19 18.04	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.11.19 18.04	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	12.11.19 18.04	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.11.19 18.04	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	12.11.19 18.04	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	12.11.19 18.04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	118	%	70-130	12.11.19 18.04		
1,4-Difluorobenzene		540-36-3	106	%	70-130	12.11.19 18.04		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS16A Matrix:

Date Received:12.11.19 12.20

Lab Sample Id: 645892-002

Soil Date Collected: 12.10.19 10.42

Sample Depth: 7 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

10.5

Result

Basis: 12.12.19 08.40

mg/kg

Wet Weight

Seq Number: 3110256

Parameter Cas Number 16887-00-6 Chloride

RL

9.96

Units **Analysis Date** Flag Dil

1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

12.12.19 09.27

% Moisture:

DTH Tech: DTH

Analyst:

Date Prep:

12.11.19 16.40

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.3	50.3		mg/kg	12.11.19 19.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	12.11.19 19.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	12.11.19 19.01	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	12.11.19 19.01	U	1
Total TPH	PHC635	< 50.3	50.3		mg/kg	12.11.19 19.01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	89	%	70-135	12.11.19 19.01
o-Terphenyl	84-15-1	89	%	70-135	12.11.19 19.01



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS16A Matrix: Soil Date Received:12.11.19 12.20

Lab Sample Id: 645892-002 Date Collected: 12.10.19 10.42 Sample Depth: 7 ft

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

% Moisture:

Analyst: MAB Date Prep: 12.11.19 13.00 Basis: Wet Weight

Seq Number: 3110217

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.11.19 18.23	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.11.19 18.23	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.11.19 18.23	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.11.19 18.23	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.11.19 18.23	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.11.19 18.23	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.11.19 18.23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	12.11.19 18.23		
1,4-Difluorobenzene		540-36-3	105	%	70-130	12.11.19 18.23		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS18A

Matrix: Soil

Date Received:12.11.19 12.20

Lab Sample Id: 645892-003

Date Collected: 12.10.19 11.26

Sample Depth: 7 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

12.12.19 08.40

Basis:

Wet Weight

Seq Number: 3110256

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	12.12.19 09.32	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep: 12.11.19 16.40

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	12.12.19 10.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	84.7	50.1		mg/kg	12.12.19 10.25		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	12.12.19 10.25	U	1
Total GRO-DRO	PHC628	84.7	50.1		mg/kg	12.12.19 10.25		1
Total TPH	PHC635	84.7	50.1		mg/kg	12.12.19 10.25		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	102	%	70-135	12.12.19 10.25		
o-Terphenyl		84-15-1	104	%	70-135	12.12.19 10.25		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS18A Matrix: Soil Date Received:12.11.19 12.20

Lab Sample Id: 645892-003 Date Collected: 12.10.19 11.26 Sample Depth: 7 ft

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

Tech: MAB % Moisture:

Seq Number: 3110217

Analyst: MAB Date Prep: 12.11.19 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.11.19 18.42	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.11.19 18.42	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.11.19 18.42	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	12.11.19 18.42	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.11.19 18.42	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.11.19 18.42	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.11.19 18.42	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	119	%	70-130	12.11.19 18.42		
1,4-Difluorobenzene		540-36-3	105	%	70-130	12.11.19 18.42		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: **FS21** Matrix: Soil

Date Received:12.11.19 12.20

Lab Sample Id: 645892-004 Date Collected: 12.10.19 15.28 Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB

12.12.19 08.40

Basis: Wet Weight

Seq Number: 3110256

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 9.92	9.92	mg/kg	12.12.19 09.38	U	1

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

12.11.19 16.40 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	12.11.19 19.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	12.11.19 19.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	12.11.19 19.21	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	12.11.19 19.21	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	12.11.19 19.21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	111	%	70-135	12.11.19 19.21		
o-Terphenyl		84-15-1	114	%	70-135	12.11.19 19.21		



Analyst:

Certificate of Analytical Results 645892

LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

12.11.19 13.00

Basis:

Wet Weight

Sample Id: FS21 Matrix: Soil Date Received:12.11.19 12.20

Lab Sample Id: 645892-004 Date Collected: 12.10.19 15.28 Sample Depth: 6 ft

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

Date Prep:

Tech: MAB % Moisture:

Seq Number: 3110217

MAB

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.11.19 19.01	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.11.19 19.01	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.11.19 19.01	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	12.11.19 19.01	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.11.19 19.01	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.11.19 19.01	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.11.19 19.01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	12.11.19 19.01		
4-Bromofluorobenzene		460-00-4	121	%	70-130	12.11.19 19.01		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS22

Matrix: Soil

Date Received:12.11.19 12.20

Lab Sample Id: 645892-005 Date Collected: 12.10.19 15.59

Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 12.12.19 08.40

Basis: W

Wet Weight

Seq Number: 3110256

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.94	9.94	mg/kg	12.12.19 09.44	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep: 12.11.19 16.40

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	12.11.19 19.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	12.11.19 19.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	12.11.19 19.21	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	12.11.19 19.21	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	12.11.19 19.21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	76	%	70-135	12.11.19 19.21		
o-Terphenyl		84-15-1	83	%	70-135	12.11.19 19.21		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS22 Matrix: Soil Date Received:12.11.19 12.20

Lab Sample Id: 645892-005 Date Collected: 12.10.19 15.59 Sample Depth: 6 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.11.19 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.11.19 19.20	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.11.19 19.20	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.11.19 19.20	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	12.11.19 19.20	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.11.19 19.20	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	12.11.19 19.20	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	12.11.19 19.20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	12.11.19 19.20		
1,4-Difluorobenzene		540-36-3	102	%	70-130	12.11.19 19.20		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: **FS23** Matrix: Soil

Date Received:12.11.19 12.20

Lab Sample Id: 645892-006 Date Collected: 12.10.19 16.15 Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 12.12.19 08.40 Basis: Wet Weight

Seq Number: 3110256

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 9.96	9.96	mg/kg	12.12.19 09.50	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: DTH

Analyst:

DTH

12.11.19 16.40 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	12.11.19 19.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	12.11.19 19.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	12.11.19 19.41	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	12.11.19 19.41	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	12.11.19 19.41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	84	%	70-135	12.11.19 19.41		
o-Terphenyl		84-15-1	91	%	70-135	12.11.19 19.41		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS23 Matrix: Soil Date Received:12.11.19 12.20

Lab Sample Id: 645892-006 Date Collected: 12.10.19 16.15 Sample Depth: 6 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.11.19 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.11.19 20.24	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.11.19 20.24	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.11.19 20.24	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.11.19 20.24	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.11.19 20.24	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.11.19 20.24	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.11.19 20.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	114	%	70-130	12.11.19 20.24		
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.11.19 20.24		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS24

Matrix: Soil

Date Received:12.11.19 12.20

Lab Sample Id: 645892-007

Date Collected: 12.10.19 16.20

Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: MAB

Analyst:

MAB

12.12.19 08.40 Basis:

Wet Weight

Seq Number: 3110256

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U 12.12.19 10.19 < 9.96 9.96 mg/kg 1

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep: 12.11.19 16.40

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	12.11.19 20.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	12.11.19 20.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	12.11.19 20.01	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	12.11.19 20.01	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	12.11.19 20.01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	72	%	70-135	12.11.19 20.01		
o-Terphenyl		84-15-1	75	%	70-135	12.11.19 20.01		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: Date Received:12.11.19 12.20 **FS24** Matrix: Soil

Lab Sample Id: 645892-007 Date Collected: 12.10.19 16.20 Sample Depth: 6 ft

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

12.11.19 13.00

% Moisture:

Wet Weight

Basis:

Tech: MAB

Date Prep:

Seq Number: 3110217

Analyst:

MAB

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.11.19 20.43	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.11.19 20.43	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.11.19 20.43	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	12.11.19 20.43	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.11.19 20.43	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.11.19 20.43	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.11.19 20.43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	12.11.19 20.43		
4-Bromofluorobenzene		460-00-4	120	%	70-130	12.11.19 20.43		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: **FS25** Matrix: Soil Date Received:12.11.19 12.20

Lab Sample Id: 645892-008

Date Collected: 12.10.19 16.30

Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst:

MAB Date Prep: % Moisture:

Basis:

12.12.19 08.40

Wet Weight

Seq Number: 3110256

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 9.98	9.98	mg/kg	12.12.19 10.35	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

12.11.19 16.40 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	12.11.19 20.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	12.11.19 20.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	12.11.19 20.01	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	12.11.19 20.01	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	12.11.19 20.01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	83	%	70-135	12.11.19 20.01		
o-Terphenyl		84-15-1	89	%	70-135	12.11.19 20.01		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS25 Matrix: Soil Date Received:12.11.19 12.20

Lab Sample Id: 645892-008 Date Collected: 12.10.19 16.30 Sample Depth: 6 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.11.19 13.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.11.19 21.02	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.11.19 21.02	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.11.19 21.02	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	12.11.19 21.02	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.11.19 21.02	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	12.11.19 21.02	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	12.11.19 21.02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	12.11.19 21.02		
4-Bromofluorobenzene		460-00-4	116	%	70-130	12.11.19 21.02		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS26

Matrix: Soil

Date Received:12.11.19 12.20

Lab Sample Id: 645892-009

Date Collected: 12.10.19 16.45

Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: MAB

Analyst: MAB

Date Prep: 12.12.19 08.40

Basis:

Wet Weight

Seq Number: 3110256

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U <9.92 12.12.19 10.41 9.92 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep: 12.11.19 16.40

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	12.11.19 20.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	12.11.19 20.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	12.11.19 20.21	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	12.11.19 20.21	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	12.11.19 20.21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	12.11.19 20.21		
o-Terphenyl		84-15-1	96	%	70-135	12.11.19 20.21		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: FS26 Matrix: Soil Date Received:12.11.19 12.20

Lab Sample Id: 645892-009 Date Collected: 12.10.19 16.45 Sample Depth: 6 ft

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

% Moisture:

Analyst: MAB Date Prep: 12.11.19 13.00 Basis: Wet Weight

Seq Number: 3110217

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.11.19 21.21	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.11.19 21.21	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.11.19 21.21	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	12.11.19 21.21	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.11.19 21.21	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.11.19 21.21	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.11.19 21.21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	12.11.19 21.21		
4-Bromofluorobenzene		460-00-4	116	%	70-130	12.11.19 21.21		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: SW14

Lab Sample Id: 645892-010

Matrix: Soil

Date Received:12.11.19 12.20

Date Collected: 12.10.19 14.59 Sample Depth: 0 - 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: MAB

Analyst:

MAB

Date Prep: 12.12.19 08.40

Basis:

Wet Weight

Seq Number: 3110256

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.0	9.88	mg/kg	12.12.19 10.47		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: I

Analyst:

DTH DTH

Date Prep: 12.11.19 16.40

Basis: W

Wet Weight

Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
PHC610	< 50.3	50.3		mg/kg	12.11.19 20.21	U	1
C10C28DRO	< 50.3	50.3		mg/kg	12.11.19 20.21	U	1
PHCG2835	< 50.3	50.3		mg/kg	12.11.19 20.21	U	1
PHC628	< 50.3	50.3		mg/kg	12.11.19 20.21	U	1
PHC635	< 50.3	50.3		mg/kg	12.11.19 20.21	U	1
	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	111-85-3	84	%	70-135	12.11.19 20.21		
	84-15-1	89	%	70-135	12.11.19 20.21		
	PHC610 C10C28DRO PHCG2835 PHC628	PHC610 <50.3 C10C28DRO <50.3 PHCG2835 <50.3 PHC628 <50.3 PHC635 <50.3 Cas Number	PHC610	PHC610	PHC610	PHC610	PHC610 <50.3 50.3 mg/kg 12.11.19 20.21 U C10C28DRO <50.3



1,4-Difluorobenzene

Certificate of Analytical Results 645892

LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: SW14 Matrix: Soil Date Received:12.11.19 12.20

Lab Sample Id: 645892-010 Date Collected: 12.10.19 14.59 Sample Depth: 0 - 6 ft

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

Tech: MAB % Moisture:

540-36-3

Analyst: MAB Date Prep: 12.11.19 13.00 Seq Number: 3110217 Basis: Wet Weight

12.11.19 21.40

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.11.19 21.40	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.11.19 21.40	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.11.19 21.40	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	12.11.19 21.40	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.11.19 21.40	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	12.11.19 21.40	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	12.11.19 21.40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	12.11.19 21.40		

103

70-130



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Soil

12.12.19 08.40

Sample Id: **SW15** Matrix:

Date Received:12.11.19 12.20

Date Collected: 12.10.19 15.10

Sample Depth: 0 - 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Wet Weight

% Moisture: Date Prep:

Seq Number: 3110256

Tech:

Analyst:

Lab Sample Id: 645892-011

MAB

MAB

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U 12.12.19 10.53 < 9.88 9.88 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Basis:

DTH Tech: DTH

Analyst:

12.11.19 16.40 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	12.11.19 20.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	58.4	49.8		mg/kg	12.11.19 20.41		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	12.11.19 20.41	U	1
Total GRO-DRO	PHC628	58.4	49.8		mg/kg	12.11.19 20.41		1
Total TPH	PHC635	58.4	49.8		mg/kg	12.11.19 20.41		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	78	%	70-135	12.11.19 20.41	.0	
o-Terphenyl		84-15-1	81	%	70-135	12.11.19 20.41		



LT Environmental, Inc., Arvada, CO

PLU BS 11 Federal Battery

Sample Id: SW15 Matrix: Soil Date Received:12.11.19 12.20

Lab Sample Id: 645892-011 Date Collected: 12.10.19 15.10 Sample Depth: 0 - 6 ft

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

% Moisture:

Analyst: MAB Date Prep: 12.11.19 13.00 Basis: Wet Weight

Seq Number: 3110217

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	12.11.19 22.00	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	12.11.19 22.00	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	12.11.19 22.00	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	12.11.19 22.00	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	12.11.19 22.00	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	12.11.19 22.00	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	12.11.19 22.00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	118	%	70-130	12.11.19 22.00		
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.11.19 22.00		



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.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.

E300P

E300P

12.12.19

Prep Method:

Prep Method:

Date Prep:



Seq Number:

QC Summary 645892

LT Environmental, Inc. PLU BS 11 Federal Battery

Analytical Method: Chloride by EPA 300

3110256 Matrix: Solid

LCS Sample Id: 7692243-1-BKS LCSD Sample Id: 7692243-1-BSD MB Sample Id: 7692243-1-BLK

MR Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result 12.12.19 09:09 Chloride <10.0 250 260 104 265 106 90-110 2 20 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: Seq Number: 3110256 Matrix: Soil 12.12.19 Date Prep:

Parent Sample Id: 645892-006 MS Sample Id: 645892-006 S MSD Sample Id: 645892-006 SD

Spike MS MS %RPD RPD Limit Units Parent **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec Chloride 9.14 200 214 102 214 103 90-110 0 20 mg/kg 12.12.19 10:07

Analytical Method: Chloride by EPA 300

3110256 Matrix: Soil Seq Number: Date Prep: 12.12.19

MS Sample Id: 645892-011 S MSD Sample Id: 645892-011 SD 645892-011 Parent Sample Id:

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec Chloride 7.60 198 211 103 211 103 90-110 0 20 12.12.19 10:59 mg/kg

Analytical Method: TPH by SW8015 Mod

Diesel Range Organics (DRO)

SW8015P Prep Method: 3110222 Matrix: Solid Seq Number: Date Prep: 12.11.19 LCSD Sample Id: 7692253-1-BSD LCS Sample Id: 7692253-1-BKS MB Sample Id: 7692253-1-BLK

823

%RPD RPD Limit Units MB Spike LCS LCS Limits Analysis LCSD LCSD Flag **Parameter** Result %Rec Date Result Amount %Rec Result 12.11.19 17:18 Gasoline Range Hydrocarbons (GRO) 973 97 923 92 70-135 < 50.0 1000 5 35 mg/kg

807

LCS LCSD MB MB LCS LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 1-Chlorooctane 71 100 95 70-135 % 12.11.19 17:18 12.11.19 17:18 o-Terphenyl 74 93 91 70-135 %

82

Analytical Method: TPH by SW8015 Mod

Seg Number: 3110222 Matrix: Solid Date Prep: 12.11.19

MB Sample Id: 7692253-1-BLK

1000

< 50.0

MB Units Analysis Flag **Parameter** Result Date

12.11.19 16:58 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

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

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

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

LCS = Laboratory Control Sample

A = Parent Result = MS/LCS Result = MSD/LCSD Result

70-135

81

2

35

Prep Method:

mg/kg

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

SW8015P

12.11.19 17:18

Flag

Flag

Flag



QC Summary 645892

LT Environmental, Inc.

PLU BS 11 Federal Battery

Analytical Method:TPH by SW8015 ModPrep Method:SW8015PSeq Number:3110222Matrix: SoilDate Prep:12.11.19

645890-001 S MSD Sample Id: 645890-001 SD Parent Sample Id: MS Sample Id: 645890-001 Spike MS MS Limits %RPD RPD Limit Units Parent **MSD MSD** Analysis **Parameter** Result Result Date Amount %Rec %Rec Result

Gasoline Range Hydrocarbons (GRO) 12.11.19 17:41 < 50.0 1000 925 93 869 86 70-135 6 35 mg/kg 83 772 35 12.11.19 17:41 Diesel Range Organics (DRO) < 50.0 1000 832 76 70-135 7 mg/kg

MS MS **MSD MSD** Limits Units Analysis **Surrogate** Flag %Rec %Rec Flag Date 1-Chlorooctane 98 91 70-135 % 12.11.19 17:41 o-Terphenyl 99 86 70-135 % 12.11.19 17:41

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

Seq Number: 3110217 Matrix: Solid Date Prep: 12.11.19
MB Sample Id: 7692204-1-BLK LCS Sample Id: 7692204-1-BKS LCSD Sample Id: 7692204-1-BSD

%RPD RPD Limit Units LCS LCS MB Spike Limits Analysis **LCSD LCSD Parameter** Date Result Amount Result %Rec Result %Rec 12.11.19 14:53 Benzene < 0.00200 0.100 0.0954 95 0.0930 93 70-130 3 35 mg/kg Toluene 0.100 0.0966 97 0.0956 96 70-130 35 mg/kg 12.11.19 14:53 < 0.00200 1 12.11.19 14:53 0.0953 95 0.0950 71-129 0 35 Ethylbenzene < 0.00200 0.100 95 mg/kg 12.11.19 14:53 m,p-Xylenes < 0.00400 0.200 0.201 101 0.201 101 70-135 0 35 mg/kg 0.101 71-133 35 12.11.19 14:53 o-Xylene < 0.00200 0.100 0.102 mg/kg

LCSD MB MB LCS LCS LCSD Limits Units Analysis **Surrogate** %Rec %Rec Flag Flag Flag Date %Rec 1.4-Difluorobenzene 101 104 103 70-130 % 12.11.19 14:53 12.11.19 14:53 4-Bromofluorobenzene 108 115 116 70-130 %

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

 Seq Number:
 3110217
 Matrix:
 Soil
 Date Prep:
 12.11.19

 Parent Sample Id:
 645890-001
 MS Sample Id:
 645890-001 S
 MSD Sample Id:
 645890-001 SD

MS %RPD RPD Limit Units Parent Spike MS MSD **MSD** Limits Analysis **Parameter** %Rec Result Amount Result %Rec Date Result 12.11.19 15:24 0.106 105 Benzene < 0.00201 0.101 0.0782 77 70-130 30 35 mg/kg Toluene < 0.00201 0.101 0.104 103 0.0866 86 70-130 18 35 12.11.19 15:24 mg/kg mg/kg 12.11.19 15:24 Ethylbenzene < 0.00201 0.101 0.0978 97 0.0816 81 71-129 18 35 102 12.11.19 15:24 < 0.00402 0.201 0.205 0.173 70-135 17 35 m,p-Xylenes 86 mg/kg 12.11.19 15:24 0.104 71-133 18 o-Xylene < 0.00201 0.101 103 0.0864 86 35 mg/kg

MSD MS MS **MSD** Limits Units Analysis **Surrogate** %Rec Flag Flag Date %Rec 1,4-Difluorobenzene 107 99 70-130 % 12.11.19 15:24 4-Bromofluorobenzene 122 123 70-130 % 12.11.19 15:24

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference
$$\begin{split} [D] &= 100*(\text{C-A}) \, / \, B \\ RPD &= 200* \mid (\text{C-E}) \, / \, (\text{C+E}) \mid \\ [D] &= 100*(\text{C}) \, / \, [B] \end{split}$$

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

LCS = Laboratory Control Sample

A = Parent Result C = MS/LCS Result

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

Work Order No:



Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

Project Manager:	Dan M	oir				Bill to: (if all	ferent)	Kyl	e Littre	U.					V	Vork Order	Page of2 Comments			
Company Name:	LT Env	vironmental	, Inc.	, Permian	office	Company I	vame:	XT	O Ener	gy					Program: UST/PST					
Address:	3300 N	orth A Stre	et			Address:		310	4 E Gr	een S	treet				State of Project:					
City, State ZIP:	Midland	d, TX 7970	5			City, State	ZIP:	Car	Isbad,	NM 8	220					vel III 🗆 ST	UST RRP Devel IV			
hone:	432.23	6.3849			Ema	it delval@it	-								aPT D Other:					
roject Name:	PLU B	35 11 Fe	deci	Betton		Turn Around	T					AMA	LYSIS F	DEOU	FOT		Work Order Notes			
roject Number:		918036		-		utine []	100		T	T		ANA	1 21217	KEUU	E51		Work Order Notes			
O. Number:		1100				sh: 24 hc														
ampler's Name:	Benjam	in Belitt	465	Del V.		Date:						- 1								
SAMPLE RECE	IPT	Temp B	lank	y€\$ 2No	1	No No														
mperature (°C):		2.4	_		Thermomete	Control of the Control	5													
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oler Custody Seals	s: Y	-	N/A		ection Factor	The second second second	Cont	9	0=8021)	300							William William Inc.			
mple Custody Sea	is: Y		N/A		al Containers	-	0,00	(EPA 8015)	(EPA 0=	(EPA							TAT starts the day received by the lab, if received by 4:30pm			
Sample Ident	tification	Ma	trix	Date Sampled	Time Sampled	Depth	пшре	TPH (EP,	BTEX (E)	Chloride							Sample Comments			
SISA		9	5	12/14/2019	1026	7!	V	5	V	10			+	-						
516A				1	1642	71	1	17	1	X										
18A					1126	7'	11	11	11	1	1		+							
22					1528	61	+	+	11	1			-							
523					1559	6'														
FP524					1615	6'		11		1		_								
Sas					1620	61		1		1		_								
526					1630	6'														
597					1645	6'			17											
VIY		V		5.17	1459	0-6'	V	V	W	W		-								

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

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be itable only for the cost of samples and shall not assume any responsibility for any leases or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$76.00 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.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
du Da VI	culli	12/11/19 12:20 2			
5		4			
		6			

1045890

Work Order No:



Chain of Custody

roject Manager:	Dan Moi	r	Ho	bbs,NM (575	392-7550) Phoe Bill to: (r an					(770-449	-8800) Tam	npa,FL (8	3-620-2000)		nco.com	Page 2 of 2	
ompany Name:		onmental, In	e Dermina	all an	The second second		1 1/2	Littrel	and the same of th							omments	
ddress:		rth A Street	c., Permian	omce	Company N	ame:	1	CTO Energy						Brownfi	elds RC Upperfund		
		TX 79705			Address:		3104	E Gre	een Street			_	State of	•			
	432.236.			Em	City, State 2 nit: delval@lte		-	sbad, I	VM 88220			-	Reporting:Level II				
oject Name:	PLL B	5 11 Feet	ral Botto		Turn Around ANALYSIS REQU						MAI VOI	_	EDD [7]	ADaPT			
oject Number: O. Number:	0129			Ro	utine []				П	Τ΄	MALYSI	S REQU	EST		T^{\dagger}	Work Order Notes	
	me: Benjamin-Betitt Luis Del Vid			sh: 24hc e Date:							-						
AMPLE RECEI	MPLE RECEIPT Temp Blank: Yes No		Wet lo	a: Yes Wo										1 1			
nperature (°C): ceived Intact:			se P	Halmomat	ometer H)			1)	(0)								
iler Custody Seals: iple Custody Seals		No N/A	Corn	ection Factoral Container	r	of Cont		(EPA 0=8021)	(EPA 300.							TAT starts the day received by the	
Sample Identi	ification	Matrix	Date Sampled	Time Sampled	Depth	lumber	трн (ЕРД	втех (пр	Chloride							lab, if received by 4:30pm Sample Comments	
U13		S	12/10/2019	1510	0-6'	X	X	X	X						+		
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Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U 1631 / 245.1 / 7470 / 7471 : Ho

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

iotice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions if 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 f 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.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
L-2011	Ollle	12/11/19 12:20		(algazate)	Daterring
	000		4		
			6		



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 12/11/2019 12:20:00 PM

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

Work Order #: 645892

Temperature Measuring device used: T-NM-007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		2.6	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping conta	iner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles'	?	Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquis	hed/ received?	Yes	
#10 Chain of Custody agrees with sample	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero heads	pace?	N/A	

Analyst:		PH Device/Lot#:	
	Checklist completed by:	Elizabeth McClellan	Date: <u>12/11/2019</u>
	Checklist reviewed by:	Jessica Wramer Jessica Kramer	Date: <u>12/12/2019</u>

Analytical Report 646243

for

LT Environmental, Inc.

Project Manager: Dan Moir
PLU BS II Federal Battery
012918036
16-DEC-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)



16-DEC-19

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

Reference: XENCO Report No(s): 646243

PLU BS II Federal Battery

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 646243. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 646243 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vermer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 646243

LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH03	S	12-12-19 12:20	2 ft	646243-001
PH03A	S	12-12-19 12:40	5 ft	646243-002
PH03B	S	12-12-19 13:00	8 ft	646243-003
PH04	S	12-12-19 13:25	2 ft	646243-004
PH04A	S	12-12-19 13:45	5 ft	646243-005
PH04B	S	12-12-19 14:00	8 ft	646243-006
PH05	S	12-12-19 14:20	2 ft	646243-007
PH05A	S	12-12-19 14:35	5 ft	646243-008
PH05B	S	12-12-19 14:45	8 ft	646243-009

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU BS II Federal Battery

 Project ID:
 012918036
 Report Date:
 16-DEC-19

 Work Order Number(s):
 646243
 Date Received:
 12/13/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3110527 BTEX by EPA 8021B

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



Certificate of Analysis Summary 646243

LT Environmental, Inc., Arvada, CO Project Name: PLU BS II Federal Battery

Date Received in Lab: Fri Dec-13-19 09:05 am

Report Date: 16-DEC-19 **Project Manager:** Jessica Kramer

Project Id: 012918036 Contact: Dan Moir

Project Location:

	Lab Id:	646243-0	201	646243-0	002	646243-0	002	646243-	004	646243-	005	646243-0	2006
Analysis Requested	Field Id:	PH03		PH03A	,	PH03I	3	PH04		PH042	A	PH04I	3
	Depth:	2- ft		5- ft		8- ft		2- ft		5- ft		8- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	.	SOIL	,
	Sampled:	Dec-12-19	12:20	Dec-12-19	12:40	Dec-12-19 13:00		Dec-12-19 13:25		Dec-12-19 13:45		Dec-12-19	14:00
BTEX by EPA 8021B	Extracted:	Dec-13-19	10:06	Dec-13-19 10:06		Dec-13-19	10:06	Dec-13-19	10:06	Dec-13-19	10:06	Dec-13-19	10:06
	Analyzed:	Dec-13-19	12:43	Dec-13-19	13:02	Dec-13-19	13:22	Dec-13-19	13:41	Dec-13-19	14:00	Dec-13-19	14:19
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00202	0.00202
Toluene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00202	0.00202
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00202	0.00202
m,p-Xylenes		< 0.00401	0.00401	< 0.00399	0.00399	< 0.00403	0.00403	< 0.00402	0.00402	< 0.00396	0.00396	< 0.00404	0.00404
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00202	0.00202
Total Xylenes		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00202	0.00202
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00202	0.00202
Chloride by EPA 300	Extracted:	Dec-13-19	11:02	Dec-13-19	11:02	Dec-13-19	11:02	Dec-13-19	11:02	Dec-13-19	11:02	Dec-13-19	11:02
	Analyzed:	Dec-13-19	13:45	Dec-13-19	14:02	Dec-13-19	14:08	Dec-13-19	14:14	Dec-13-19	14:20	Dec-13-19	14:37
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		79.8	10.1	46.9	10.0	85.6	10.0	<10.1	10.1	38.0	10.0	219	10.0
TPH by SW8015 Mod	Extracted:	Dec-13-19	11:30	Dec-13-19	11:30	Dec-13-19	11:30	Dec-13-19	11:30	Dec-13-19	11:30	Dec-13-19	11:30
	Analyzed:	Dec-13-19	11:50	Dec-13-19	12:10	Dec-13-19	12:30	Dec-13-19	12:30	Dec-13-19	12:50	Dec-13-19	12:50
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.9	49.9	<49.9	49.9	< 50.0	50.0	< 50.1	50.1	<49.8	49.8
Diesel Range Organics (DRO)		<49.8	49.8	<49.9	49.9	<49.9	49.9	< 50.0	50.0	<50.1	50.1	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.9	49.9	<49.9	49.9	< 50.0	50.0	< 50.1	50.1	<49.8	49.8
Total GRO-DRO		<49.8	49.8	<49.9	49.9	<49.9	49.9	< 50.0	50.0	< 50.1	50.1	<49.8	49.8
Total TPH		<49.8	49.8	<49.9	49.9	<49.9	49.9	< 50.0	50.0	< 50.1	50.1	<49.8	49.8

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

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

Jessica Kramer

Certificate of Analysis Summary 646243 LT Environmental, Inc., Arvada, CO

Project Name: PLU BS II Federal Battery

Date Received in Lab: Fri Dec-13-19 09:05 am

Report Date: 16-DEC-19 Project Manager: Jessica Kramer

Project Id: 012918036 **Contact:** Dan Moir

Project Location:

			-				-		
	Lab Id:	646243-0	007	646243-0	800	646243-0	009		
Analysis Requested	Field Id:	PH05		PH05A	A	PH05E	3		
Analysis Requesieu	Depth:	2- ft		5- ft		8- ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Dec-12-19	14:20	Dec-12-19	14:35	Dec-12-19	14:45		
BTEX by EPA 8021B	Extracted:	Dec-13-19	10:06	Dec-13-19	10:06	Dec-13-19	10:06		
	Analyzed:	Dec-13-19	14:38	Dec-13-19	14:57	Dec-13-19	15:16		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene	·	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201		
Toluene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201		
Ethylbenzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201		
m,p-Xylenes		< 0.00398	0.00398	< 0.00396	0.00396	< 0.00402	0.00402		
o-Xylene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201		
Total Xylenes		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201		
Total BTEX		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201		
Chloride by EPA 300	Extracted:	Dec-13-19	11:02	Dec-13-19	11:02	Dec-13-19	11:02		
	Analyzed:	Dec-13-19	14:43	Dec-13-19	14:49	Dec-13-19	14:54		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		13.5	10.1	134	9.90	120	10.1		
TPH by SW8015 Mod	Extracted:	Dec-13-19	11:30	Dec-13-19	11:30	Dec-13-19	11:30		
	Analyzed:	Dec-13-19	13:10	Dec-13-19	13:10	Dec-13-19	13:30		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)	·	<50.2	50.2	< 50.2	50.2	< 50.0	50.0		
Diesel Range Organics (DRO)		< 50.2	50.2	< 50.2	50.2	< 50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	< 50.2	50.2	< 50.0	50.0		
Total GRO-DRO		<50.2	50.2	< 50.2	50.2	<50.0	50.0		
Total TPH		< 50.2	50.2	< 50.2	50.2	< 50.0	50.0		

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

Jessica Kramer Project Assistant



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: PH03

Matrix: Soil

Date Received:12.13.19 09.05

Lab Sample Id: 646243-001

Date Collected: 12.12.19 12.20

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

Date Prep: 12.13.19 11.02

% Moisture:

Basis:

Wet Weight

Analyst: MAB Seq Number: 3110529

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	79.8	10.1	mg/kg	12.13.19 13.45		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:

Analyst:

DTH DTH

Date Prep: 12.13.19 11.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	12.13.19 11.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	12.13.19 11.50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	12.13.19 11.50	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	12.13.19 11.50	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	12.13.19 11.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	112	%	70-135	12.13.19 11.50		
o-Terphenyl		84-15-1	117	%	70-135	12.13.19 11.50		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: PH03 Matrix: Soil Date Received:12.13.19 09.05

Lab Sample Id: 646243-001 Date Collected: 12.12.19 12.20 Sample Depth: 2 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.13.19 10.06 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.13.19 12.43	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.13.19 12.43	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.13.19 12.43	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	12.13.19 12.43	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.13.19 12.43	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.13.19 12.43	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.13.19 12.43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	12.13.19 12.43		
4-Bromofluorobenzene		460-00-4	114	%	70-130	12.13.19 12.43		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: PH03A

Matrix: Soil

Date Received:12.13.19 09.05

Lab Sample Id: 646243-002

Date Collected: 12.12.19 12.40

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

12.13.19 11.02

Basis:

Wet Weight

Seq Number: 3110529

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.9	10.0	mg/kg	12.13.19 14.02		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DTH

% Moisture:

Analyst: DTH

Date Prep: 12.13.19 11.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	12.13.19 12.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	12.13.19 12.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	12.13.19 12.10	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	12.13.19 12.10	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	12.13.19 12.10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	111	%	70-135	12.13.19 12.10		
o-Terphenyl		84-15-1	111	%	70-135	12.13.19 12.10		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: PH03A Matrix: Soil Date Received:12.13.19 09.05

Lab Sample Id: 646243-002 Date Collected: 12.12.19 12.40 Sample Depth: 5 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.13.19 10.06 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.13.19 13.02	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.13.19 13.02	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.13.19 13.02	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.13.19 13.02	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.13.19 13.02	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.13.19 13.02	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.13.19 13.02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	12.13.19 13.02		
4-Bromofluorobenzene		460-00-4	126	%	70-130	12.13.19 13.02		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

PH03B Sample Id:

Lab Sample Id: 646243-003

Matrix: Soil Date Collected: 12.12.19 13.00 Date Received:12.13.19 09.05

Sample Depth: 8 ft

Analytical Method: Chloride by EPA 300

MAB

Analyst: MAB

Tech:

12.13.19 11.02 Date Prep:

% Moisture:

Basis:

Prep Method: E300P

Wet Weight

Seq Number: 3110529

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	85.6	10.0	mg/kg	12.13.19 14.08		1

Analytical Method: TPH by SW8015 Mod

DTH Tech:

DTH Analyst:

12.13.19 11.30 Date Prep:

% Moisture:

Basis:

Prep Method: SW8015P

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	12.13.19 12.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	12.13.19 12.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	12.13.19 12.30	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	12.13.19 12.30	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	12.13.19 12.30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	105	%	70-135	12.13.19 12.30		
o-Terphenyl		84-15-1	112	%	70-135	12.13.19 12.30		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: PH03B Matrix: Soil Date Received:12.13.19 09.05

Lab Sample Id: 646243-003 Date Collected: 12.12.19 13.00 Sample Depth: 8 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.13.19 10.06 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.13.19 13.22	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.13.19 13.22	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.13.19 13.22	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	12.13.19 13.22	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.13.19 13.22	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	12.13.19 13.22	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	12.13.19 13.22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	126	%	70-130	12.13.19 13.22		
1,4-Difluorobenzene		540-36-3	106	%	70-130	12.13.19 13.22		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: **PH04** Matrix: Soil

Date Received:12.13.19 09.05

Lab Sample Id: 646243-004

Date Collected: 12.12.19 13.25 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB

12.13.19 11.02 Date Prep:

Basis: Wet Weight

Seq Number: 3110529

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mg/kg	12.13.19.14.14	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

12.13.19 11.30 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	12.13.19 12.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	12.13.19 12.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	12.13.19 12.30	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	12.13.19 12.30	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	12.13.19 12.30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	12.13.19 12.30		
o-Terphenyl		84-15-1	112	%	70-135	12.13.19 12.30		



Analyst:

Certificate of Analytical Results 646243

LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

12.13.19 10.06

Basis:

70-130

12.13.19 13.41

Wet Weight

Sample Id: PH04 Matrix: Soil Date Received:12.13.19 09.05

Lab Sample Id: 646243-004 Date Collected: 12.12.19 13.25 Sample Depth: 2 ft

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

Date Prep:

Tech: MAB % Moisture:

540-36-3

Seq Number: 3110527

MAB

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	12.13.19 13.41	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	12.13.19 13.41	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	12.13.19 13.41	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	12.13.19 13.41	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	12.13.19 13.41	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	12.13.19 13.41	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	12.13.19 13.41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	119	%	70-130	12.13.19 13.41		

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LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: PH04A

Matrix: Soil

Date Received:12.13.19 09.05

Lab Sample Id: 646243-005

Date Collected: 12.12.19 13.45

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

Analyst:

MAB MAB

Date Prep: 12.13.19 11.02

% Moisture:

Basis:

Wet Weight

Seq Number: 3110529

seq Number. 3110329

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	38.0	10.0	mg/kg	12.13.19 14.20		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

DTH

% Moisture:

Analyst: DTH

Tech:

Date Prep: 12.13.19 11.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	12.13.19 12.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	12.13.19 12.50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	12.13.19 12.50	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	12.13.19 12.50	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	12.13.19 12.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	112	%	70-135	12.13.19 12.50		
o-Terphenyl		84-15-1	114	%	70-135	12.13.19 12.50		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: PH04A Soil Matrix:

> Date Collected: 12.12.19 13.45 Sample Depth: 5 ft

Lab Sample Id: 646243-005

Prep Method: SW5030B

Date Received:12.13.19 09.05

% Moisture:

Tech: MAB

MAB Analyst: 12.13.19 10.06 Date Prep:

Basis: Wet Weight

Seq Number: 3110527

Analytical Method: BTEX by EPA 8021B

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.13.19 14.00	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.13.19 14.00	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.13.19 14.00	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	12.13.19 14.00	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.13.19 14.00	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.13.19 14.00	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.13.19 14.00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	12.13.19 14.00		
4-Bromofluorobenzene		460-00-4	120	%	70-130	12.13.19 14.00		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Soil

Sample Id: PH04B Matrix:

Date Received:12.13.19 09.05

Lab Sample Id: 646243-006

Date Collected: 12.12.19 14.00

Sample Depth: 8 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

MAB Tech:

% Moisture:

Analyst: MAB Seq Number: 3110529 Date Prep: 12.13.19 11.02 Basis: Wet Weight

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 219 10.0 12.13.19 14.37 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

12.13.19 11.30 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	12.13.19 12.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	12.13.19 12.50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	12.13.19 12.50	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	12.13.19 12.50	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	12.13.19 12.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	107	%	70-135	12.13.19 12.50		
o-Terphenyl		84-15-1	111	%	70-135	12.13.19 12.50		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: PH04B Matrix: Soil Date Received:12.13.19 09.05

Lab Sample Id: 646243-006 Date Collected: 12.12.19 14.00 Sample Depth: 8 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.13.19 10.06 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.13.19 14.19	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.13.19 14.19	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.13.19 14.19	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	12.13.19 14.19	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.13.19 14.19	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	12.13.19 14.19	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	12.13.19 14.19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	12.13.19 14.19		
4-Bromofluorobenzene		460-00-4	124	%	70-130	12.13.19 14.19		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: **PH05** Matrix: Soil Date Received:12.13.19 09.05

Lab Sample Id: 646243-007

Date Collected: 12.12.19 14.20

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

MAB Tech:

Analyst:

MAB

Date Prep: 12.13.19 11.02 % Moisture: Basis:

Wet Weight

Seq Number: 3110529

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 10.1 12.13.19 14.43 13.5 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

12.13.19 11.30 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	12.13.19 13.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	12.13.19 13.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	12.13.19 13.10	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	12.13.19 13.10	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	12.13.19 13.10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	106	%	70-135	12.13.19 13.10		
o-Terphenyl		84-15-1	111	%	70-135	12.13.19 13.10		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: PH05 Matrix: Soil Date Received:12.13.19 09.05

Lab Sample Id: 646243-007 Date Collected: 12.12.19 14.20 Sample Depth: 2 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 12.13.19 10.06 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	12.13.19 14.38	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	12.13.19 14.38	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	12.13.19 14.38	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	12.13.19 14.38	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	12.13.19 14.38	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	12.13.19 14.38	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	12.13.19 14.38	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	12.13.19 14.38		
4-Bromofluorobenzene		460-00-4	120	%	70-130	12.13.19 14.38		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: PH05A

Matrix: Soil

Date Received:12.13.19 09.05

Lab Sample Id: 646243-008

Date Collected: 12.12.19 14.35

Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Analyst: MAB

Date Prep:

12.13.19 11.02 Basis:

Wet Weight

Seq Number: 3110529

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 134
 9.90
 mg/kg
 12.13.19 14.49
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

DTH

% Moisture:

Analyst: DTH

Tech:

Date Prep: 12.13.19 11.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	12.13.19 13.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	12.13.19 13.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	12.13.19 13.10	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	12.13.19 13.10	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	12.13.19 13.10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	106	%	70-135	12.13.19 13.10		
o-Terphenyl		84-15-1	109	%	70-135	12.13.19 13.10		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: PH05A Matrix: Soil Date Received:12.13.19 09.05

Lab Sample Id: 646243-008 Date Collected: 12.12.19 14.35 Sample Depth: 5 ft

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

MAB % Moisture:

Analyst: MAB Date Prep: 12.13.19 10.06 Basis: Wet Weight

Seq Number: 3110527

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.13.19 14.57	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.13.19 14.57	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.13.19 14.57	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	12.13.19 14.57	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.13.19 14.57	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.13.19 14.57	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.13.19 14.57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	12.13.19 14.57		
4-Bromofluorobenzene		460-00-4	128	%	70-130	12.13.19 14.57		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: PH05B

Matrix: Soil

Date Received:12.13.19 09.05

Lab Sample Id: 646243-009

Date Collected: 12.12.19 14.45

Sample Depth: 8 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MAB

% Moisture:

Basis:

Analyst: MAB

Date Prep:

12.13.19 11.02

Wet Weight

Seq Number: 3110529

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 120
 10.1
 mg/kg
 12.13.19 14.54
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:
Analyst:

DTH DTH

Date Prep: 12.13.19 11.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	12.13.19 13.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	12.13.19 13.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	12.13.19 13.30	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	12.13.19 13.30	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	12.13.19 13.30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	12.13.19 13.30		
o-Terphenyl		84-15-1	112	%	70-135	12.13.19 13.30		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: PH05B Matrix: Soil Date Received:12.13.19 09.05

Lab Sample Id: 646243-009 Date Collected: 12.12.19 14.45 Sample Depth: 8 ft

Prep Method: SW5030B

% Moisture:

Analyst: MAB Date Prep: 12.13.19 10.06 Basis: Wet Weight

Seq Number: 3110527

Tech:

Analytical Method: BTEX by EPA 8021B

MAB

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	12.13.19 15.16	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	12.13.19 15.16	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	12.13.19 15.16	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	12.13.19 15.16	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	12.13.19 15.16	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	12.13.19 15.16	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	12.13.19 15.16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	106	%	70-130	12.13.19 15.16		
4-Bromofluorobenzene		460-00-4	125	%	70-130	12.13.19 15.16		



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.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.



Seq Number:

QC Summary 646243

LT Environmental, Inc.

PLU BS II Federal Battery

Analytical Method: Chloride by EPA 300

3110529 Matrix: Solid

LCS Sample Id: 7692368-1-BKS MB Sample Id: 7692368-1-BLK

MR

E300P Prep Method:

Date Prep: 12.13.19

LCSD Sample Id: 7692368-1-BSD

Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result 12.13.19 13:34 Chloride <10.0 250 259 104 262 105 90-110 20 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3110529

Parent Sample Id:

646243-001

Matrix: Soil

MS Sample Id: 646243-001 S Prep Method: Date Prep:

E300P 12.13.19

Prep Method:

MSD Sample Id: 646243-001 SD

Spike MS MS %RPD RPD Limit Units Parent **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec Chloride 79.8 200 295 108 297 108 90-110 20 mg/kg 12.13.19 13:51

Analytical Method: Chloride by EPA 300

3110529 Seq Number:

Matrix: Soil

Date Prep:

E300P

12.13.19

MS Sample Id: 646256-002 S MSD Sample Id: 646256-002 SD 646256-002 Parent Sample Id:

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

Chloride 3.93 199 213 105 220 109 90-110 3 20 12.13.19 15:12 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number: 3110481 Matrix: Solid

Prep Method: Date Prep: SW8015P

12.13.19

mg/kg

Flag

7692406-1-BKS LCSD Sample Id: 7692406-1-BSD LCS Sample Id: MB Sample Id: 7692406-1-BLK

%RPD RPD Limit Units MB Spike LCS LCS Limits Analysis LCSD LCSD **Parameter** Result %Rec Date Result Amount %Rec Result Gasoline Range Hydrocarbons (GRO) 121 18 12.13.19 11:30 < 50.0 1000 1210 1010 101 70-135 35 mg/kg 70-135 35 12.13.19 11:30 Diesel Range Organics (DRO) 1000 1240 124 1050 105 17

LCS MB MB LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 1-Chlorooctane 105 132 123 70-135 % 12.13.19 11:30 12.13.19 11:30 o-Terphenyl 107 133 122 70-135 %

Analytical Method: TPH by SW8015 Mod

Seg Number: 3110481 Matrix: Solid

Prep Method:

SW8015P

12.13.19

Units

MB Sample Id: 7692406-1-BLK

MB **Parameter**

< 50.0

Date Prep:

Analysis

Flag Result Date 12.13.19 11:10 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

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

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

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

LCS = Laboratory Control Sample A = Parent Result = MS/LCS Result

= MSD/LCSD Result

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

Flag

Flag



Seq Number:

QC Summary 646243

LT Environmental, Inc.

PLU BS II Federal Battery

Analytical Method: TPH by SW8015 Mod

3110481 Matrix: Soil Prep Method: SW8015P

Date Prep: 12.13.19

MS Sample Id: 646243-001 S Parent Sample Id: 646243-001

MSD Sample Id: 646243-001 SD Flag

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date	F
Gasoline Range Hydrocarbons (GRO)	<49.8	996	1090	109	1080	108	70-135	1	35	mg/kg	12.13.19 11:50	
Diesel Range Organics (DRO)	<49.8	996	1120	112	1100	110	70-135	2	35	mg/kg	12.13.19 11:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	128		129		70-135	%	12.13.19 11:50
o-Terphenyl	123		124		70-135	%	12.13.19 11:50

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B Seq Number: 3110527 Matrix: Solid Date Prep: 12.13.19 LCS Sample Id: 7692369-1-BKS LCSD Sample Id: 7692369-1-BSD MB Sample Id: 7692369-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date
Benzene	< 0.00200	0.100	0.0897	90	0.0913	91	70-130	2	35	mg/kg	12.13.19 11:01
Toluene	< 0.00200	0.100	0.0913	91	0.0929	93	70-130	2	35	mg/kg	12.13.19 11:01
Ethylbenzene	< 0.00200	0.100	0.0905	91	0.0923	92	71-129	2	35	mg/kg	12.13.19 11:01
m,p-Xylenes	< 0.00400	0.200	0.192	96	0.196	98	70-135	2	35	mg/kg	12.13.19 11:01
o-Xylene	< 0.00200	0.100	0.0964	96	0.0985	99	71-133	2	35	mg/kg	12.13.19 11:01

Surrogate	MB %Rec	MB Flag	%Rec	Flag	LCSD %Rec	Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		102		102		70-130	%	12.13.19 11:01
4-Bromofluorobenzene	110		116		117		70-130	%	12.13.19 11:01

Analytical Method: BTEX by EPA 8021B

Seq Number: 3110527 Matrix: Soil Date Prep: 12.13.19 MS Sample Id: 646243-001 S MSD Sample Id: 646243-001 SD Parent Sample Id: 646243-001

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	it Units	Analysis Date
Benzene	< 0.00200	0.100	0.0903	90	0.0894	89	70-130	1	35	mg/kg	12.13.19 11:40
Toluene	< 0.00200	0.100	0.0903	90	0.0892	88	70-130	1	35	mg/kg	12.13.19 11:40
Ethylbenzene	< 0.00200	0.100	0.0865	87	0.0837	83	71-129	3	35	mg/kg	12.13.19 11:40
m,p-Xylenes	< 0.00401	0.200	0.182	91	0.176	88	70-135	3	35	mg/kg	12.13.19 11:40
o-Xylene	< 0.00200	0.100	0.0927	93	0.0900	89	71-133	3	35	mg/kg	12.13.19 11:40

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		105		70-130	%	12.13.19 11:40
4-Bromofluorobenzene	123		123		70-130	%	12.13.19 11:40

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

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

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

LCS = Laboratory Control Sample

A = Parent Result

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

Prep Method:

SW5030B

Chain of Custody

Work Order No: 646243

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

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Federal Bat 80 36 Spencer Lo No No N/A N/A To N/A Date	Ros Rus Due Wet los Thermometr	City, State Z iii: slo@ltenv.cc Furn Around utine sh: 2-4 H e Date: e: Yes No ler ID -007		Carls	bad, N	M 882	2000	ANA	LYSIS	REQUE	Delive	57		evel	_	PT [Other:
Spencer Lo Spencer Lo No No N/A N/A To Marking Date	Ros Rus Due Wet los Thermometr	iii: slo@ltenv.co Furn Around utine [] sh: 24 H e Date: e: Yes No ler ID		-				ANA	LYSIS	REQUE		rables	: EDD		ADa		
Spencer Lo Spencer Lo Spencer Lo No No N/A N/A N/A To N/A Date	Ros Rus Due Wet los Thermometr	Furn Around utine sh: 24 H e Date: e: Yes No ter ID -007	ontainers	Contast	1			ANA	LYSIS	REQUE	ST			Ī		W	ork Order Notes
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Bedrotti Librar	Time Sampled	Depth	Numbe	TPH (EF	BTEX (EPA 0=8021)	Chloride										Sa	mple Comments
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XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Work Order #: 646243

Date/ Time Received: 12/13/2019 09:05:00 AM

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

Temperature Measuring device used: T-NM-007

\$	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping contained	er/ cooler? Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished	d/ received? Yes	
#10 Chain of Custody agrees with sample lab	els/matrix? Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated te	st(s)? Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspa	ce? N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Elizabeth McClellan

Date: 12/13/2019

Date: 12/13/2019

Analytical Report 646256

for

LT Environmental, Inc.

Project Manager: Dan Moir
PLU BS II Federal Battery
012918036
16-DEC-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)



16-DEC-19

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

Reference: XENCO Report No(s): 646256

PLU BS II Federal Battery

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 646256. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 646256 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vermer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Sample Cross Reference 646256

LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW16	S	12-12-19 11:15	0 - 6 ft	646256-001
SW17	S	12-12-19 11:15	0 - 6 ft	646256-002
SW18	S	12-12-19 11:15	0 - 6 ft	646256-003

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU BS II Federal Battery

 Project ID:
 012918036
 Report Date:
 16-DEC-19

 Work Order Number(s):
 646256
 Date Received:
 12/13/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3110527 BTEX by EPA 8021B

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

Dan Moir

LT Environmental, Inc., Arvada, CO Project Name: PLU BS II Federal Battery **Project Id:** 012918036

Date Received in Lab: Fri Dec-13-19 09:05 am

Report Date: 16-DEC-19 Project Manager: Jessica Kramer

Project Location:

Contact:

	Lab Id:	646256-0		646256-0		646256-0			
Analysis Requested	Field Id:	SW16	i	SW17	7	SW18			
11matysis Requesica	Depth:	0-6 ft		0-6 ft		0-6 ft			
	Matrix:	SOIL		SOIL	,	SOIL			
	Sampled:	Dec-12-19	11:15	Dec-12-19	11:15	Dec-12-19	11:15		
BTEX by EPA 8021B	Extracted:	Dec-13-19	10:06	Dec-13-19	10:06	Dec-13-19	10:06		
	Analyzed:	Dec-13-19	15:35	Dec-13-19	16:39	Dec-13-19	16:58		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene	·	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199		
Toluene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199		
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199		
m,p-Xylenes		< 0.00399	0.00399	< 0.00400	0.00400	< 0.00398	0.00398		
o-Xylene		0.00201	0.00200	< 0.00200	0.00200	< 0.00199	0.00199		
Total Xylenes		0.00201	0.00200	< 0.00200	0.00200	< 0.00199	0.00199		
Total BTEX		0.00201	0.00200	< 0.00200	0.00200	< 0.00199	0.00199		
Chloride by EPA 300	Extracted:	Dec-13-19	11:02	Dec-13-19	11:02	Dec-13-19	11:02		
	Analyzed:	Dec-13-19	15:00	Dec-13-19	15:06	Dec-13-19	15:23		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		<9.98	9.98	<9.94	9.94	<9.92	9.92		
TPH by SW8015 Mod	Extracted:	Dec-13-19	11:30	Dec-13-19	11:30	Dec-13-19	11:30		
	Analyzed:	Dec-13-19	13:30	Dec-13-19	13:50	Dec-13-19	14:10		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	< 50.2	50.2	< 50.1	50.1		
Diesel Range Organics (DRO)		2060	50.0	685	50.2	741	50.1		
Motor Oil Range Hydrocarbons (MRO)		211	50.0	122	50.2	81.5	50.1		
Total GRO-DRO		2060	50.0	685	50.2	741	50.1		
Total TPH		2270	50.0	807	50.2	823	50.1		

Certificate of Analysis Summary 646256

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

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

Jessica Kramer Project Assistant



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: **SW16** Matrix:

Date Received:12.13.19 09.05 Soil

Lab Sample Id: 646256-001 Date Collected: 12.12.19 11.15 Sample Depth: 0 - 6 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P Tech: MAB

% Moisture:

% Moisture:

Analyst: MAB Basis: Wet Weight Date Prep: 12.13.19 11.02

Seq Number: 3110529

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 9.98	9.98	mg/kg	12.13.19 15.00	U	1

Prep Method: SW8015P Analytical Method: TPH by SW8015 Mod

DTH Tech:

DTH Analyst: 12.13.19 11.30 Basis: Wet Weight Date Prep:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	12.13.19 13.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	2060	50.0		mg/kg	12.13.19 13.30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	211	50.0		mg/kg	12.13.19 13.30		1
Total GRO-DRO	PHC628	2060	50.0		mg/kg	12.13.19 13.30		1
Total TPH	PHC635	2270	50.0		mg/kg	12.13.19 13.30		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	116	%	70-135	12.13.19 13.30		
o-Terphenyl		84-15-1	122	%	70-135	12.13.19 13.30		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: SW16 Matrix: Soil Date Received:12.13.19 09.05

Lab Sample Id: 646256-001 Date Collected: 12.12.19 11.15 Sample Depth: 0 - 6 ft

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

% Moisture:

Analyst: MAB Date Prep: 12.13.19 10.06 Basis: Wet Weight

Seq Number: 3110527

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.13.19 15.35	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.13.19 15.35	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.13.19 15.35	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.13.19 15.35	U	1
o-Xylene	95-47-6	0.00201	0.00200		mg/kg	12.13.19 15.35		1
Total Xylenes	1330-20-7	0.00201	0.00200		mg/kg	12.13.19 15.35		1
Total BTEX		0.00201	0.00200		mg/kg	12.13.19 15.35		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	12.13.19 15.35		
4-Bromofluorobenzene		460-00-4	113	%	70-130	12.13.19 15.35		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: SW17

Matrix: Soil

Date Received:12.13.19 09.05

Lab Sample Id: 646256-002

Date Collected: 12.12.19 11.15

Sample Depth: 0 - 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst:

MAB

% Moisture:

moistare.

Seq Number: 3110529

Date Prep: 12.13.19 11.02

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.94	9.94	mg/kg	12.13.19 15.06	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

% Moisture:

Analyst: DTH

Date Prep: 12.13.19 11.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	12.13.19 13.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	685	50.2		mg/kg	12.13.19 13.50		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	122	50.2		mg/kg	12.13.19 13.50		1
Total GRO-DRO	PHC628	685	50.2		mg/kg	12.13.19 13.50		1
Total TPH	PHC635	807	50.2		mg/kg	12.13.19 13.50		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	12.13.19 13.50		
o-Terphenyl		84-15-1	114	%	70-135	12.13.19 13.50		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

12.13.19 10.06

Basis:

Wet Weight

Sample Id: SW17 Matrix: Soil Date Received:12.13.19 09.05

Lab Sample Id: 646256-002 Date Collected: 12.12.19 11.15 Sample Depth: 0 - 6 ft

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

Date Prep:

Tech: MAB % Moisture:

Seq Number: 3110527

Analyst:

MAB

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.13.19 16.39	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.13.19 16.39	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.13.19 16.39	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	12.13.19 16.39	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.13.19 16.39	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.13.19 16.39	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.13.19 16.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.13.19 16.39		
4-Bromofluorobenzene		460-00-4	105	%	70-130	12.13.19 16.39		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

Sample Id: **SW18** Matrix: Soil

Date Received:12.13.19 09.05

Lab Sample Id: 646256-003 Date Collected: 12.12.19 11.15 Sample Depth: 0 - 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

MAB Tech:

% Moisture:

Analyst: MAB Seq Number: 3110529 Date Prep: 12.13.19 11.02 Basis:

Wet Weight

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U <9.92 12.13.19 15.23 9.92 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

12.13.19 11.30 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	12.13.19 14.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	741	50.1		mg/kg	12.13.19 14.10		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	81.5	50.1		mg/kg	12.13.19 14.10		1
Total GRO-DRO	PHC628	741	50.1		mg/kg	12.13.19 14.10		1
Total TPH	PHC635	823	50.1		mg/kg	12.13.19 14.10		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	118	%	70-135	12.13.19 14.10		
o-Terphenyl		84-15-1	126	%	70-135	12.13.19 14.10		



LT Environmental, Inc., Arvada, CO

PLU BS II Federal Battery

12.13.19 10.06

Basis:

Wet Weight

Sample Id: Date Received:12.13.19 09.05 **SW18** Matrix: Soil

Lab Sample Id: 646256-003 Date Collected: 12.12.19 11.15 Sample Depth: 0 - 6 ft

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

Date Prep:

Tech: MAB % Moisture:

Seq Number: 3110527

MAB

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	12.13.19 16.58	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	12.13.19 16.58	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	12.13.19 16.58	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	12.13.19 16.58	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	12.13.19 16.58	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	12.13.19 16.58	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	12.13.19 16.58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	12.13.19 16.58		
1,4-Difluorobenzene		540-36-3	101	%	70-130	12.13.19 16.58		



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.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 646256

LT Environmental, Inc.

PLU BS II Federal Battery

Analytical Method: Chloride by EPA 300

3110529

7692368-1-BLK

Matrix: Solid

104

Prep Method: Date Prep:

E300P 12.13.19

mg/kg

mg/kg

MB Sample Id:

LCS Sample Id:

7692368-1-BKS

LCSD Sample Id: 7692368-1-BSD

Analysis

Parameter

Seq Number:

MR Spike Result Amount

LCS LCS Result %Rec LCSD LCSD Result

%Rec

%RPD RPD Limit Units

Date

Chloride

<10.0

79.8

3.93

MB

MB

107

259

262

105

90-110

Limits

20

12.13.19 13:34

Flag

Analytical Method: Chloride by EPA 300

3110529 Matrix: Soil

250

Date Prep:

Prep Method:

E300P

Seq Number: Parent Sample Id:

646243-001

MS Sample Id: 646243-001 S MSD Sample Id: 646243-001 SD

12.13.19

Parameter

MS Result

MS

MSD MSD Limits

%RPD RPD Limit Units

Analysis

Flag

Chloride

Parent Result

Spike Amount 200

%Rec 295 108

Result

%Rec 297 108

90-110

20

Date 12.13.19 13:51

Analytical Method: Chloride by EPA 300

Parent Sample Id:

3110529

Matrix: Soil

646256-002 S

Prep Method: Date Prep: E300P

12.13.19

Seq Number:

646256-002

Parent Spike

MS Sample Id: MS MS

MSD

MSD %Rec Limits

MSD Sample Id: 646256-002 SD %RPD RPD Limit Units

Analysis

Parameter Chloride

Result

Amount 199

Result %Rec 213 105

Result 220

109 90-110

3 20

12.13.19 15:12 mg/kg

Flag Date

Analytical Method: TPH by SW8015 Mod

3110481

7692406-1-BLK

Matrix: Solid

101

LCSD

%Rec

123

122

Prep Method: Date Prep:

SW8015P

12.13.19

7692406-1-BSD

Flag

Parameter

Seq Number:

MB Sample Id:

Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)

Result Amount < 50.0 1000 1000 < 50.0

Spike

LCS Result %Rec 1210

1240

132

133

7692406-1-BKS LCS Sample Id: LCS

LCSD LCSD Result

Limits %Rec

70-135

%RPD RPD Limit Units

LCSD Sample Id:

Analysis

Date 12.13.19 11:30

Surrogate

1-Chlorooctane

o-Terphenyl

%Rec 105

LCS MB Flag %Rec

121 124 LCS

1010 1050

70-135 105

LCSD

Flag

18 35 35 17

Limits

70-135

70-135

mg/kg mg/kg

Units

%

%

12.13.19 11:30

Analysis Date

> 12.13.19 11:30 12.13.19 11:30

Analytical Method: TPH by SW8015 Mod 3110481

Matrix: Solid

Flag

Prep Method:

Units

SW8015P 12.13.19

Flag

Parameter

Seg Number:

Motor Oil Range Hydrocarbons (MRO)

MB Result

< 50.0

MB Sample Id: 7692406-1-BLK

Date Prep:

Analysis

Date 12.13.19 11:10 mg/kg

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

Log Difference

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

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

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



Seq Number:

Parent Sample Id:

QC Summary 646256

LT Environmental, Inc.

PLU BS II Federal Battery

Analytical Method: TPH by SW8015 Mod

646243-001

3110481 Matrix: Soil

MS Sample Id: 646243-001 S

SW8015P Prep Method:

Date Prep: 12.13.19

MSD Sample Id: 646243-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	1090	109	1080	108	70-135	1	35	mg/kg	12.13.19 11:50	
Diesel Range Organics (DRO)	<49.8	996	1120	112	1100	110	70-135	2	35	mg/kg	12.13.19 11:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	128		129		70-135	%	12.13.19 11:50
o-Terphenyl	123		124		70-135	%	12.13.19 11:50

Analytical Method: BTEX by EPA 8021B

Seq Number: 3110527

Matrix: Solid

Prep Method: Date Prep: 12.13.19

SW5030B

Flag

Flag

LCS Sample Id: 7692369-1-BKS 7692369-1-BLK MB Sample Id:

LCSD Sample Id: 7692369-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	Units	Analysis Date
Benzene	< 0.00200	0.100	0.0897	90	0.0913	91	70-130	2	35	mg/kg	12.13.19 11:01
Toluene	< 0.00200	0.100	0.0913	91	0.0929	93	70-130	2	35	mg/kg	12.13.19 11:01
Ethylbenzene	< 0.00200	0.100	0.0905	91	0.0923	92	71-129	2	35	mg/kg	12.13.19 11:01
m,p-Xylenes	< 0.00400	0.200	0.192	96	0.196	98	70-135	2	35	mg/kg	12.13.19 11:01
o-Xylene	< 0.00200	0.100	0.0964	96	0.0985	99	71-133	2	35	mg/kg	12.13.19 11:01

Surrogate	%Rec	Flag	%Rec Flag	%Rec	Flag	Limits	Units	Date
1,4-Difluorobenzene	101		102	102		70-130	%	12.13.19 11:01
4-Bromofluorobenzene	110		116	117		70-130	%	12.13.19 11:01

Analytical Method: BTEX by EPA 8021B

Seq Number: 3110527 Parent Sample Id: 646243-001

Matrix: Soil MS Sample Id: 646243-001 S Prep Method: SW5030B Date Prep:

12.13.19 MSD Sample Id: 646243-001 SD

MS Limits %RPD RPD Limit Units Parent Spike MS MSD MSD Analysis **Parameter** Result Amount Result %Rec %Rec Date Result 12.13.19 11:40 0.090390 0.0894 Benzene < 0.00200 0.100 89 70-130 1 35 mg/kg Toluene < 0.00200 0.1000.0903 90 0.0892 88 70-130 1 35 mg/kg 12.13.19 11:40 0.100 0.0837 71-129 12.13.19 11:40 Ethylbenzene < 0.00200 0.0865 87 83 3 35 mg/kg 35 12.13.19 11:40 < 0.00401 0.200 0.182 91 0.176 70-135 3 m,p-Xylenes 88 mg/kg 0.100 12.13.19 11:40 93 0.0900 71-133 35 o-Xylene < 0.00200 0.0927 89 3 mg/kg

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		105		70-130	%	12.13.19 11:40
4-Bromofluorobenzene	123		123		70-130	%	12.13.19 11:40

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

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

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

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result

E = MSD/LCSD Result

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

Final 1.000

Work Order No: 1944 256

-	
	XENCO

Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

Project Manager:	Dan M	Dan Moir Bill to: (if dffer			IX.MZ (4	(480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (8				,FL (81	3-620-2	000)		www.xe	nco.co	m Page of				
Company Name:	LT Environmental, Inc., Permian office					Kyle Littrell			-	Work Order Comments										
Address:				Company N				_	Pro	gram: U	ST/PST	□ RP	Brow	vnfields RC Duperfund						
City, State ZIP:	00001101017100000				Address: 3104 East Green Street				_			Project								
Phone:	100000000000000000000000000000000000000	236-384			1 -	City, State 2				NM 88	1220			_				evel I	II De	T/UST RRP evel IV
	1			- /*		ail: slo@ltenv.c	om, dr	noir@l	tenv.c	om					Deliverables: EDD ADaPT Other:					
Project Name:	ILLU B	01101	8036	Battery		Turn Around						ANAL	YSIS F	REQU	EST					Work Order Notes
Project Number:	-	0. 641	0036			utine []									T					
P.O. Number:					Ru	sh: 24H														
Sampler's Name:	<u></u>		Spencer	Lo	Du	e Date:			1											
SAMPLE RECE	EIPT	Ter	mp Blank	(Yes) No	Wet lo	e: Yes No	- 22													
emperature (°C):		2	2		Thermomet		Ders		21)											
Received Intact:	3	(es)		T	- NN	1-007	Contair			300.0)				1						
Cooler Custody Seal		Yes (A)	1		ection Facto	r -0.2	S	8015)	8	A 30	1 1			1						1102
ample Custody Sea	als:	Yes K) N/A	Tota	I Container	s: 3	rof	A 8	PA	(EPA	1 1			1						TAT starts the day received by lab, if received by 4:30pm
Sample Iden	tification	,	Matrix	Date Sampled	Time	Depth	mpg	H (EPA	BTEX (EPA 0=8021)	Chloride						ш				7 826 92 93
Sw16			5	12-12-19	Sampled 1/15	0-6	ž	표	TB .	5	-	_	-					_		Sample Comments
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Total 200.7 / 60	10 20	00.8 / 60	020:	8RC	CRA 13PF	PM Texas 11	Al	Sh Ac	Ba	Do D	C4 C0	Cr. Cr	0. 5			_				Na Sr TI Sn U V Zn
Circle Method(s) and Me	etal(s) to	be ana	lyzed	CLP / SPI	LP 6010: 8R	CRA	Sb A	s Ba	Be (Od Cr C	Cu P	b Mn	Mo N	Mg N	n Mo	Ni K S	Se Ag	SiO2 1	Na Sr TI Sn U V Zn
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rvice. Xenco will be list	able only fo ge of \$75.00	or the cost 0 will be a	of samples pplied to ea	and shall not ach project and	assume any re la charge of \$	sponsibility for ar	y losse	s or exp	enses in	ncurred	by the clier	t if such ic	sses are	due to	s standi circums	ances be	and cond youd the	control		
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XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 12/13/2019 09:05:00 AM

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

Work Order #: 646256 Temperature Measuring device used : T-NM-007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		2.2	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping conta	iner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample I	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headsp	pace?	N/A	

* Must be	completed for after-hours de	elivery of samples prior to plac	ing in the refrigerator
Analyst:		PH Device/Lot#:	g
	Checklist completed by:	Elizabeth McClellan	Date: <u>12/13/2019</u>
	Checklist reviewed by:	Jessica Kramer	Date: <u>12/13/2019</u>

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 489826

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	489826
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites				
Incident ID (n#)	nAB1625934302			
Incident Name	NAB1625934302 PLU BIG SINKS 11 FEDERAL BATTERY @ 30-015-37147			
Incident Type	Oil Release			
Incident Status	Reclamation Report Received			
Incident Well	[30-015-37147] POKER LAKE UNIT CVX JV BS #002H			

Location of Release Source				
Please answer all the questions in this group.				
Site Name	PLU BIG SINKS 11 FEDERAL BATTERY			
Date Release Discovered	09/13/2016			
Surface Owner	Federal			

Incident Details			
Please answer all the questions in this group.			
Incident Type	Oil Release		
Did this release result in a fire or is the result of a fire	No		
Did this release result in any injuries	No		
Has this release reached or does it have a reasonable probability of reaching a watercourse	No		
Has this release endangered or does it have a reasonable probability of endangering public health	No		
Has this release substantially damaged or will it substantially damage property or the environment	No		
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No		

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	r the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Equipment Failure Valve Crude Oil Released: 79 BBL Recovered: 42 BBL Lost: 37 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 489826

QUESTIONS (contin	ued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	489826
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)			
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.		
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes		
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.			

Initial Response					
The responsible party must undertake the following actions immediately unless they could create a s	The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.				
The source of the release has been stopped	True				
The impacted area has been secured to protect human health and the environment	True				
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True				
All free liquids and recoverable materials have been removed and managed appropriately	True				
If all the actions described above have not been undertaken, explain why	Not answered.				
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of					

Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

Name: Colton Brown Title: Environmental Advisor I hereby agree and sign off to the above statement ${\it Email: colton.s.brown@exxonmobil.com}$ Date: 07/29/2025

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116 Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 3

Action 489826

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	489826
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 CI B)	416	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	97.1	
GRO+DRO (EPA SW-846 Method 8015M)	77.9	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	05/24/2018	
On what date will (or did) the final sampling or liner inspection occur	05/13/2025	
On what date will (or was) the remediation complete(d)	05/29/2025	
What is the estimated surface area (in square feet) that will be reclaimed	6970	
What is the estimated volume (in cubic yards) that will be reclaimed	3000	
What is the estimated surface area (in square feet) that will be remediated	6970	
What is the estimated volume (in cubic yards) that will be remediated	3000	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 489826

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	489826
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the	Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	
D- 0.4- 4:- D- 540 45 00 44 NMAO		

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

Name: Colton Brown
Title: Environmental Advisor
Email: colton.s.brown@exxonmobil.com
Date: 07/29/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 489826

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	489826
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

QUESTIONS, Page 6

Action 489826

QUESTIONS (continued)

OGRID:
5380
Action Number:
489826
Action Type:
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded 444084	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/24/2025
What was the (estimated) number of samples that were to be gathered	60
What was the sampling surface area in square feet	7000

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.
Requesting a remediation closure approval with this submission Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	6970
What was the total volume (cubic yards) remediated	3000
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	6970
What was the total volume (in cubic yards) reclaimed	3000
Summarize any additional remediation activities not included by answers (above)	Excavation activities were conducted at the Site to address the impacted soil resulting from the September 13, 2016, crude oil release. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation is required.

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 (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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.

I hereby agree and sign off to the above statement

Name: Colton Brown
Title: Environmental Advisor
Email: colton.s.brown@exxonmobil.com
Date: 07/29/2025

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 7

Action 489826

QUESTIONS (continued)

Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	489826	
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	
QUESTIONS		
Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	Yes	
What was the total reclamation surface area (in square feet) for this site	6970	
What was the total volume of replacement material (in cubic yards) for this site	3000	
	our feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 rer must include a top layer, which is either the background thickness of topsoil or one foot of suitable material	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes	
On what (estimated) date will (or was) the reseeding commence(d)	08/30/2025	
Summarize any additional reclamation activities not included by answers (above)	Following backfill activities, the disturbed area was contoured to match the surrounding topography and the surface was prepared for seeding. Upon confirmation that the excavation was backfilled with non-waste containing material, the disturbed pasture area will be seeded with a certified weed-free seed mix. The BLM Loamy Site #1 Seed Mixture will be used to seed the Site. The seed mix will be applied via drill seeding. The Site will be monitored for vegetation growth to ensure that reclamation activities were successful.	
	clamation requirements and any conditions or directives of the OCD. This demonstration should be in the form field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13	
I hereby cortify that the information given above is true and complete to the heat of my king.	powledge and understand that pursuant to OCD rules and regulations all energians are required.	
to report and/or file certain release notifications and perform corrective actions for releas the OCD does not relieve the operator of liability should their operations have failed to ac water, human health or the environment. In addition, OCD acceptance of a C-141 report	nowledge and understand that pursuant to OCD rules and regulations all operators are required es which may endanger public health or the environment. The acceptance of a C-141 report by dequately investigate and remediate contamination that pose a threat to groundwater, surface does not relieve the operator of responsibility for compliance with any other federal, state, or illy restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed g notification to the OCD when reclamation and re-vegetation are complete.	

Name: Colton Brown Title: Environmental Advisor

Date: 07/29/2025

Email: colton.s.brown@exxonmobil.com

I hereby agree and sign off to the above statement

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 8

Action 489826

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	489826
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report		
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.		
Requesting a restoration complete approval with this submission	No	
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.		

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

CONDITIONS

Action 489826

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	489826
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By		Condition Date
nvelez	None	8/18/2025