

August 28, 2025

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: 2025 Closure Request Addendum PLU Big Sinks 3-25-31 Battery Incident Number nAB1731042349 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following 2025 Closure Request Addendum (2025 Addendum) to the Closure Request Addendum (2023 Addendum) dated September 25, 2023 and the original Closure Request dated October 23, 2018. This addendum provides an update to the delineation activities at the PLU Big Sinks 3-25-31 Battery (Site) in response to the New Mexico Oil Conservation Division (NMOCD) denial of the 2023 Addendum. In the denial, NMOCD stated sample locations SS08 and SS09 exceeded Table 1 Closure Criteria for the top four feet of soil and should be addressed via remediation or deferral of remediation in areas where remediation could cause a major facility deconstruction as long as the impacts do not cause an imminent risk to human health, the environment, or ground water. Based on the additional delineation activities described below, XTO is again requesting closure for Incident Number nAB1731042349.

RELEASE BACKGROUND

The NMOCD permitting website has tracked the release location as Unit C, Section 3, Township 25 South, Range 31 East in Eddy County, New Mexico (32.165844, -103.7679062); however, this is the location of the well the release is associated with, Poker Lake Unit CVX JC BS #027H. The release is located in Unit A, Section 4, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.164680°, -103.77774°), as documented on the original Release Notification and Corrective Action Form C-141 (Form C-141). The Site is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM). Please note that the Site is now referenced as Poker Lake Unit CVX JV BS #027H on the NMOCD permitting website.

On October 28, 2017, the fire tube gasket on the heater treater failed, resulting in the release of approximately 51 barrels (bbls) of oil and 6 bbls of produced water. The release affected approximately 2,300 square feet of the adjacent pasture, and misted approximately 7,000 square feet of pasture west of the Site. Approximately 36 bbls of oil and 4 bbls of produced water were recovered using a vacuum truck. Micro-Blaze® was applied to the offsite vegetation that was affected by the mist. XTO reported the release to the NMOCD on a Form C-141 on November 3, 2017. The release was assigned Remediation Permit (RP) Number 2RP-4470 and Incident Number nAB1731042349.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, New Mexico 88220 | ensolum.com

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.

Between July 2018 and October 2018, delineation and excavation activities were conducted at the Site to address the impacted soil resulting from the October 28, 2017, crude oil and produced water release. Approximately 3,600 square feet of soil ranging in depth from 1 foot to 4 feet below ground surface (bgs) was excavated from the pasture west of the pad. Soil samples SW01 through SW06, FS01, FS02, and FS04 were collected from the sidewalls and the floor of the pasture excavation. Delineation samples SS01 through SS03 were collected in the pasture outside of the excavation to confirm there were no remaining impacts to the areas where Micro-Blaze® was applied. An area of approximately 450 square feet of soil ranging in depth from 0.5 foot to 1.5 feet bgs was removed from the well pad using a hydrovacuum. Excavation floor soil samples SS04, SS05, and SS09 and delineation soil samples SS06 through SS08 and SS10 were collected from the well pad. Using the NMOCD 1993 Guidelines for Leaks, Spills, and Releases, confirmation soil samples were compliant with the NMOCD Closure Criteria, except for soil sample SS07, which exceeded the NMOCD reclamation requirement for chloride in the top four feet of soil. XTO's safety policy restricted soil disturbing activities to a 3-foot radius of process equipment. This policy was enforced along the eastern edge of the excavation where impacted soil was identified within three feet of a meter and the heater treater. The excavation was advanced to three feet from the equipment by hydro-vacuum and hand digging methods to remove as much impacted soil as possible around soil sample SS07. Delineation soil samples SS11 through SS13 were collected to define impacts at SS07, and laboratory analytical results reported chloride concentrations compliant with the reclamation requirement. Closure was requested on October 23, 2018, based on laboratory analytical results for the delineation and excavation soil samples compliant with the NMOCD Closure Criteria. Additional details regarding the delineation and excavation activities can be referenced in the October 23, 2018, Closure Request.

On March 24, 2023, NMOCD denied the *Closure Request* for Incident Number nAB1731042349 for following reason:

• The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.

The NMOCD preference for wells used for depth to groundwater determination to be no further than 0.5 miles away from the Site with data less than 25 years old was not in place at the time of the original soil sampling and reporting activities. The original *Closure Request* was submitted on October 23, 2018, prior to the September 6, 2019, publication of the Procedures for Implementation of the Spill Rule guidance document that clarified the depth to groundwater determination preferences (Section IX.a.).

In response to the denial, XTO submitted a *Remediation Work Plan* (*Work Plan*) to the NMOCD on June 29, 2023. The *Work Plan* proposed to install a soil boring within 0.5 miles of the Site to investigate depth to groundwater and confirm the Closure Criteria at the Site. The *Work Plan* was approved by the NMOCD on June 29, 2023.

As outlined in the June 29, 2023 *Work Plan*, XTO installed a soil boring for determination of groundwater depth and confirmation of the Closure Criteria in August 2023. The depth to groundwater greater than 100 feet bgs within 0.5 miles of the Site was confirmed. The Closure Criteria for the Site was reassessed using Table I, Closure Criteria for Soils Impacted by a Release, of 19.15.29 NMAC. Upon review of the



2018 soil sample analytical results, one assessment soil sample (SS08) was identified with a total petroleum hydrocarbons (TPH) concentration exceeding the Closure Criteria of 2,500 milligrams per kilogram (mg/kg). The TPH concentration of 2,630 mg/kg, identified in soil sample SS08 collected at 1-foot bgs in July 2018, was compliant with the remediation action level for TPH of 5,000 mg/kg applied at the time under the NMOCD 1993 *Guidelines for Leaks, Spills, and Releases*. In August 2023, one soil sample (SS08) was collected via hand auger at a depth of 1-foot bgs at the original SS08 soil sample location, and laboratory analytical results reported all constituents of concern (COC) concentrations were compliant with the new Closure Criteria. On September 25, 2023, XTO requested closure of this release in the 2023 Addendum. Both the Closure Request and the 2023 Addendum are included as Appendix A.

On October 17, 2023, the NMOCD denied the *2023 Addendum* for Incident Number nAB1731042349 for the following reason:

• All areas not reasonably needed for production or subsequent drilling operations must be 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. Samples SS08 and SS09 exceed Table I closure criteria for the top four feet. Remediation on an active site can be deferred in areas immediately under or around production equipment such as production tanks, wellheads, and pipelines where remediation could cause a major facility deconstruction so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. The deferral request must specify which sample points are being requested for deferral including an explanation why the contaminants can't be removed.

CLOSURE CRITERIA

Receptors used to determine the Closure Criteria for the Site are illustrated on Figure 1. Well permit C-01914 is located closer to the Site than the newly installed well C-04762 discussed above that reported a depth to groundwater of greater than 100 feet bgs. Review of well permit C-01914 revealed that the well was never installed (Appendix B). Based on the results of the Site Characterization presented in the 2023 Addendum, the following NMOCD Table I Closure Criteria were applied:

Benzene: 10 mg/kg

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

TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg

TPH: 2,500 mg/kg

Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release. Additionally, impacts on-pad must be delineated to the reclamation requirement, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following Site decommissioning.

ADDITIONAL DELINEATION AND RESAMPLING SOIL ACTIVITIES

Following the denial of the 2023 Addendum, the 2018 soil sampling results were again reviewed to determine areas that exceed the reclamation requirement. Previous soil sampling locations SS07 at 0.5 feet bgs, SS08 at 1 foot bgs, and SS09 at 1.5 feet bgs were identified as exceeding the reclamation requirement for TPH and/or chloride and were re-sampled on February 16, 2024. The soil samples were collected using a hand auger and were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips.



Results were recorded on lithologic/soil sampling logs (Appendix B). The samples were placed directly into a pre-cleaned glass jar, 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 Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following COCs: BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for soil samples SS07 through SS09 collected in 2024 reported COC concentrations compliant with the Closure Criteria; however, all three sampling locations reported TPH levels above the reclamation requirement. On June 27, 2025, additional soil samples were collected to vertically delineate previous sampling locations SS07 through SS09 and laterally delineate impacts north of SS08. Samples were collected from SS07A/SS07B at 1 foot and 2 feet bgs, SS08A at 2 feet bgs, SS09A at 2 feet bgs, and SS14A/SS14B/SS14C at 1 foot, 2 feet and 3 feet bgs. Each boring was advanced until refusal using a hydro-vacuum. The discrete samples were collected, screened, and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico for analysis using the above-described methodologies, except chloride, which was analyzed utilizing Standard Method SM4500.

The soil sampling locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are presented on Figure 2. Lithologic/soil sampling logs for the 2024 and 2025 sampling events are attached as Appendix C. A photographic log of 2024 and 2025 sampling activities is included as Appendix D.

LABORATORY ANALYTICAL RESULTS

Following excavation and sampling activities, laboratory analytical results confirm that impacted soil exceeding Closure Criteria was removed and waste-containing soil was fully defined to the reclamation requirement as requested by NMOCD in the *2023 Addendum* denial response. The current and historical laboratory analytical results are summarized on Table 1, and the 2024 and 2025 laboratory analytical reports are included in Appendix E.

CLOSURE REQUEST

Soil delineation sampling, excavation activities, and confirmation sampling were conducted at the Site to address impacted soil resulting from the October 28, 2017, release of crude oil and produced water. Following excavation both on-pad and in the pasture west of the pad, laboratory analytical results from delineation and confirmation sampling indicate that all COC concentrations were in compliance with the appropriate Closure Criteria and on-pad waste-containing soil were fully defined to the reclamation standard in the top 2 feet.

Due to the presence of multiple utilities at the active Site, the release was remediated on-pad to Closure Criteria for safety reasons. Approximately 1,400 square feet of waste-containing soil was delineated within the top 2 feet and is present at sample locations SS07 through SS09. Following Site decommissioning, an estimated 104 cubic yards of waste-containing soil will be reclaimed. The presence of the waste-containing soil present on-pad does not cause an imminent risk to human health, the environment, or groundwater. XTO will reclaim this soil reporting COC concentrations exceeding reclamation requirement but below Closure Criteria during final Site reclamation.

Initial response efforts, excavation of impacted soil, and natural attenuation have mitigated impacts at this Site. Depth to groundwater has been confirmed to be greater than 100 feet bgs within 0.5 miles of the Site and no other sensitive receptors were identified near the release extent. XTO believes the remedial actions completed are protective of human health, the environment, and groundwater and



address all deficiencies as noted in the *2023 Addendum* denial response. XTO respectfully requests a deferral for samples SS07, SS08, and SS09 and no further action (NFA) for Incident Number nAB1731042349.

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

Sincerely, Ensolum, LLC

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Katherine Kahn, P.G. Senior Managing Geologist

cc: Colton Brown, XTO Kaylan Dirkx, XTO

Bureau of Land Management

Tacoma Morrissey, MS Associate Principal

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Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation and Excavation Soil Sample Locations

Table 1 Soil Sample Analytical Results

Appendix A September 25, 2023 Closure Request Addendum

Appendix B Well Permit C-01914

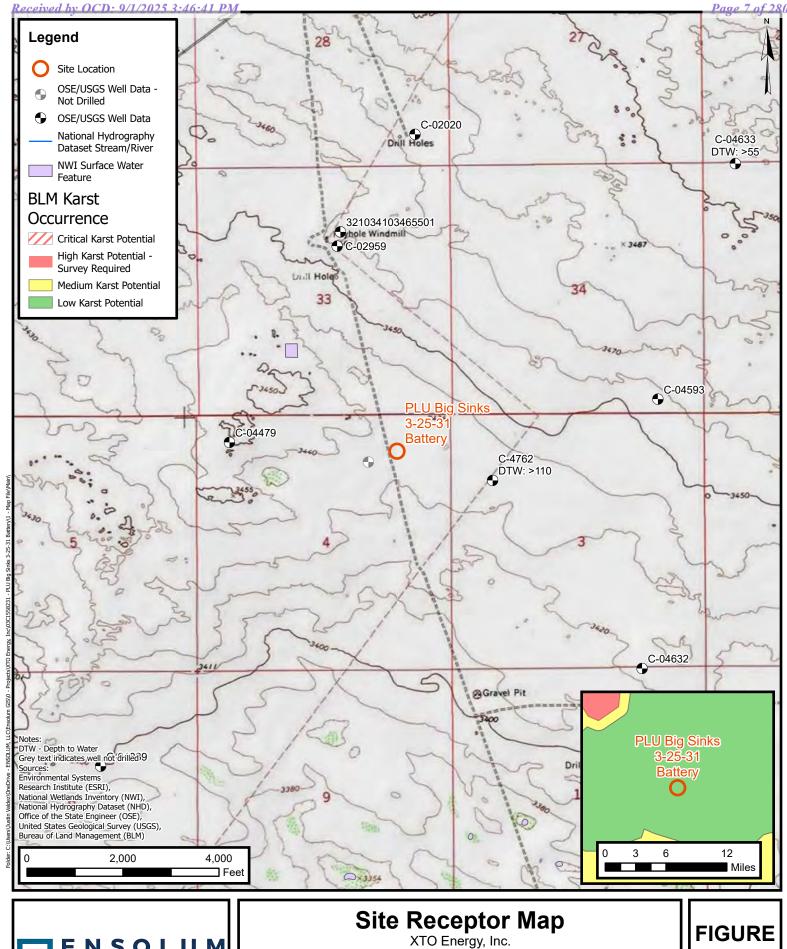
Appendix C Lithologic/Soil Sampling Logs (2024 and 2025)

Appendix D Photographic Log (2024 and 2025)

Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation (2024 and 2025)



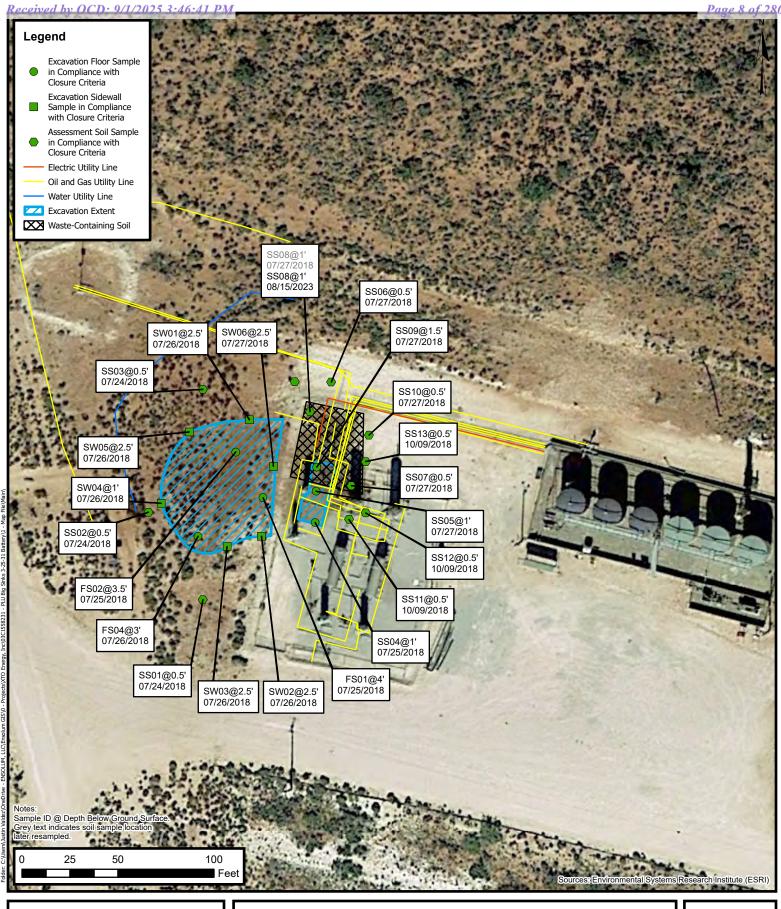
FIGURES





PLU Big Sinks 3-25-31 Battery Incident Number: Incident Number nAB1731042349 Unit A, Section 4, Township 25 South, Range 31 East New Mexico

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Delineation and Excavation Soil Sample Locations

XTO Energy, Inc.
PLU Big Sinks 3-25-31 Battery
Incident Number: nAB1731042349
Unit A, Section 4, Township 25 South, Range 31 East
Eddy County, New Mexico

FIGURE 2



TABLE



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU Big Sinks 3-25-31 Battery XTO Energy, Inc. Eddy County, New Mexico

Sample I.D.	Sample Date	Sample 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 Table I C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delir	neation Soil Sa	mples				
SS01	07/24/2018	0.5	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<4.99
SS02	07/24/2018	0.5	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	20.0
SS03	07/24/2018	0.5	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	<4.97
SS06	07/27/2018	0.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	24.6
SS07	07/27/2018	0.5	<0.00199	<0.00199	<15.0	753	<15.0	753	753	1,100
SS07	02/16/2024	0.5	<00.202	<0.00404	<50.4	462	<50.4	462	462	69.4
SS07A	06/27/2025	1.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS07B	06/27/2025	2.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS08	07/27/2018	1.0	<0.00202	0.0282	73.8	2,510	43.8	2,580	2,630	40.7
SS08	08/15/2023	1.0	< 0.00200	<0.00400	<49.7	567	88.4	567	655	124
SS08	02/16/2024	1.0	<0.00200	<0.00399	<50.5	591	<50.5	591	<mark>591</mark>	102
SS08A	06/27/2025	2.0	< 0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS10	07/27/2018	0.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	7.92
SS11	10/09/2018	0.5	<0.0100	<0.0100	17.7	<15.0	<15.0	17.7	17.7	<4.98
SS12	10/09/2018	0.5	<0.00202	<0.00202	25.8	<15.0	<15.0	25.8	25.8	<4.96
SS13	10/09/2018	0.5	<0.00199	<0.00199	<14.9	<14.9	<14.9	<14.9	16.1	<5.00
SS14A	06/27/2025	1.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS14B	06/27/2025	2.0	<0.050	< 0.300	<10.0	18.0	<10.0	18.0	18.0	32.0
SS14C	06/27/2025	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
				Excava	tion Floor Soil	Samples				
FS01	07/25/2018	4.0	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	221
FS02	07/25/2018	3.5	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	30.7
FS04	07/26/2018	3.0	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	15.1
SS04	07/25/2018	1.0	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	12.3
SS05	07/27/2018	1.0	<0.00199	<0.00199	<14.9	77.3	<14.9	77.3	77.3	149
SS09	07/27/2018	1.5	<0.00201	0.0328	82.4	605	20.4	687	708	393
SS09	02/16/2024	1.5	<0.00198	<0.00396	<49.9	194	<49.9	194	<mark>194</mark>	86.7
SS09A	06/27/2025	2.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
				Excavation	on Sidewall So	il Samples				
SW01	07/26/2018	2.5	<0.00201	<0.00201	<15.0	16.8	<15.0	16.8	16.8	26.7
SW02	07/26/2018	2.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<4.98

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU Big Sinks 3-25-31 Battery XTO Energy, Inc. Eddy County, New Mexico

Sample I.D.	Sample Date	Sample 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 Table I Cl	osure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
SW03	07/26/2018	2.5	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<4.99
SW04	07/26/2018	1.0	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	<4.98
SW05	07/26/2018	2.5	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	9.04
SW06	07/26/2018	2.5	<0.00199	<0.00199	<14.9	50.9	<14.9	50.9	50.9	159

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

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation

requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text indicates soil sample location was later re-sampled.



APPENDIX A

September 25, 2023 Closure Request Addendum



September 25, 2023

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

Re: Closure Request Addendum
PLU Big Sinks 3-25-31 Battery
Incident Number nAB1731042349
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following addendum to the original *Closure Request* dated October 23, 2018. This addendum provides an update to the depth to groundwater determination activities at the PLU Big Sinks 3-25-31 Battery (Site) in response to the New Mexico Oil Conservation Division (NMOCD) denial of the October 23, 2018, *Closure Request*. In the denial, NMOCD indicated that the depth to groundwater assessment was not sufficient. Based on the additional depth to groundwater determination activities described below, XTO is submitting this *Closure Request Addendum* and requesting closure for Incident Number nAB1731042349.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 4, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.164680°, -103.77774°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On October 28, 2017, the fire tube gasket on the heater treater failed, resulting in the release of approximately 51 barrels (bbls) of oil and 6 bbls of produced water. The release affected approximately 2,300 square feet of the caliche well pad, approximately 2,300 square feet of the adjacent pasture, and misted approximately 7,000 square feet of pasture west of the Site. Approximately 36 bbls of oil and 4 bbls of produced water were recovered using a vacuum truck. Micro-Blaze[®] was applied to the offsite vegetation that was affected by the mist. XTO reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141) on November 3, 2017. The release was assigned Remediation Permit (RP) Number 2RP-4470 and Incident Number nAB1731042349.

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.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of 19.15.29 NMAC. Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

BACKGROUND

Between July 2018 and October 2018, delineation and excavation activities were conducted at the Site to address the impacted soil resulting from the October 28, 2017, crude oil and produced water release. The delineation and excavation soil sample locations are presented on Figure 2 and the laboratory analytical results are summarized on Table 1. Closure was requested on October 23, 2018, based on laboratory analytical results for the delineation and excavation soil samples compliant with the NMOCD site-specific remediation action levels and/or the Site Closure Criteria. Additional details regarding the delineation and excavation activities can be referenced in the October 23, 2018, *Closure Request*.

On March 24, 2023, NMOCD denied the *Closure Request* for Incident Number nAB1731042349 for following reason:

• The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.

The NMOCD *preference* for wells used for depth to groundwater determination to be no further than 0.5 miles away from the site with data less than 25 years old was not in place at the time of the original soil sampling and reporting activities. The original *Closure Request* was submitted on October 23, 2018, prior to the September 6, 2019, publication of the Procedures for Implementation of the Spill Rule guidance document that clarified the depth to groundwater determination preferences (Section IX.a.).

In response to the denial, XTO submitted a *Remediation Work Plan* (*Work Plan*) to the NMOCD on June 29, 2023. The *Work Plan* proposed to install a soil boring within 0.5 miles of the Site to investigate depth to groundwater and confirm the Closure Criteria at the Site. The *Work Plan* was approved by the NMOCD on June 29, 2023.



ADDITIONAL DEPTH TO GROUNDWATER DETERMINATION

As outlined in the June 29, 2023 *Work Plan*, XTO proceeded with the installation of a soil boring for determination of groundwater depth and confirmation of the Site Closure Criteria. During August 2023, a borehole, permitted as New Mexico Office of the State Engineer (NMOSE) well C-04762, was advanced to a depth of 110 feet bgs via air rotary drill rig. The borehole was located approximately 0.38 miles southeast of the Site and is depicted on Figure 1. A field geologist logged and described soils continuously. No moisture or saturated soil indicative of a groundwater table was observed during drilling of the soil boring. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

Based on confirmed depth to groundwater greater than 100 feet bgs within 0.5 miles of the Site, the Table I Closure Criteria identified above are appropriate for protection of groundwater at this Site.

ADDITIONAL SOIL SAMPLING ACTIVITIES

Upon review of the 2018 soil sample analytical results, one assessment soil sample (SS08@1') was identified with a TPH concentration exceeding the Site Closure Criteria of 2,500 mg/kg. The TPH concentration of 2,630 mg/kg, identified in soil sample SS08@1' during July 2018, was compliant with the remediation action level for TPH of 5,000 mg/kg applied at the time under the NMOCD 1993 Guidelines for Leaks, Spills, and Releases.

On August 15, 2023, Ensolum personnel were at the Site to complete soil sampling activities to assess for the presence or absence of residual TPH impacted soil identified at the July 2018 SS08@1' soil sample location. One soil sample (SS08) was collected via hand auger at a depth of 1-foot bgs at the original SS08@1' soil sample location. The soil sample was placed directly into a pre-cleaned glass jar, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil sample was transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for soil sample SS08 indicated that all COC concentrations were compliant with the Site Closure Criteria. The soil sample location is presented on Figure 2 and the laboratory analytical results are summarized on Table 1. The complete laboratory analytical report is included as Appendix B.

CLOSURE REQUEST

Site assessment and excavation activities were completed at the Site to address the impacted soil resulting from the October 28, 2017, release of crude oil and produced water. Based on laboratory analytical results for the final excavation and delineation soil samples compliant with the Site Closure Criteria and reclamation requirements where applicable, no further remediation is required.

Initial response efforts, excavation of impacted soil, and natural attenuation have mitigated impacts at this Site. Depth to groundwater has been confirmed to be greater than 100 feet bgs within 0.5 miles of the Site and no other sensitive receptors were identified near the release extent. XTO believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number nAB1731042349. NMOCD sampling notifications are included as Appendix C and the October 23, 2018, Closure Request is included as Appendix D.



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

Sincerely, **Ensolum, LLC**

Aimee Cole

Senior Managing Scientist

Tacoma Morrissey Senior Geologist

Mouissey

cc: Garrett Green, XTO

Tommee Lambert, XTO Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation and Excavation Soil Sample Locations (2018/2023)

Table 1 Soil Sample Analytical Results (2018/2023)

Appendix A Referenced Well Records

Appendix B Laboratory Analytical Reports & Chain-of-Custody Documentation (2023)

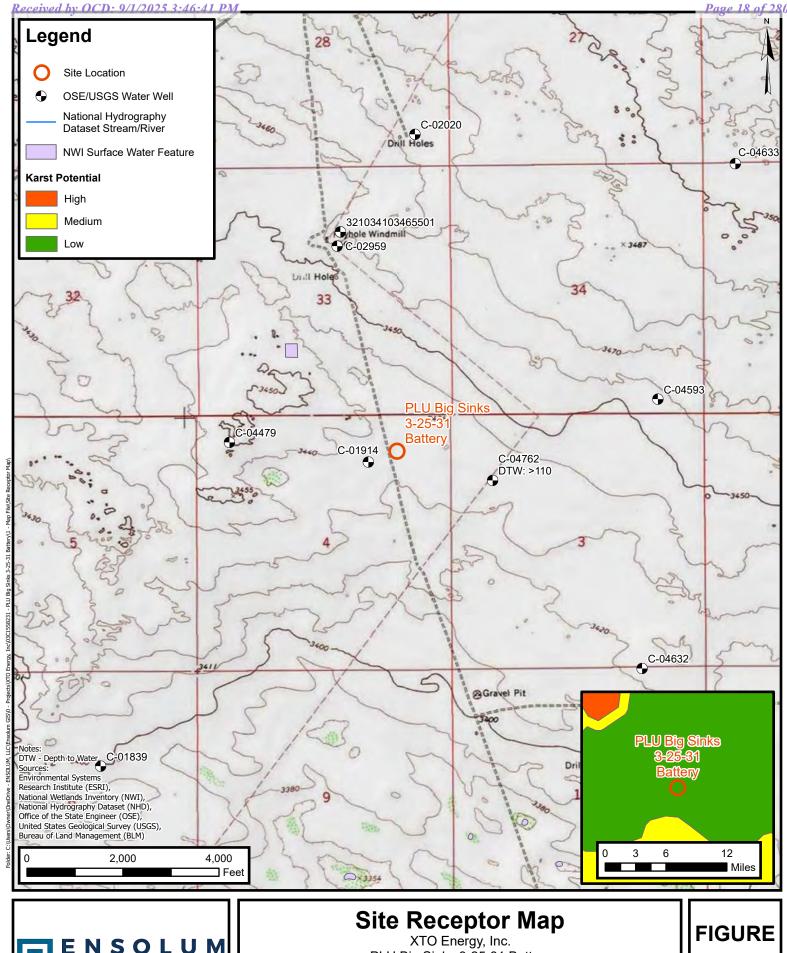
Appendix C NMOCD Notifications

Appendix D October 23, 2018 Closure Request





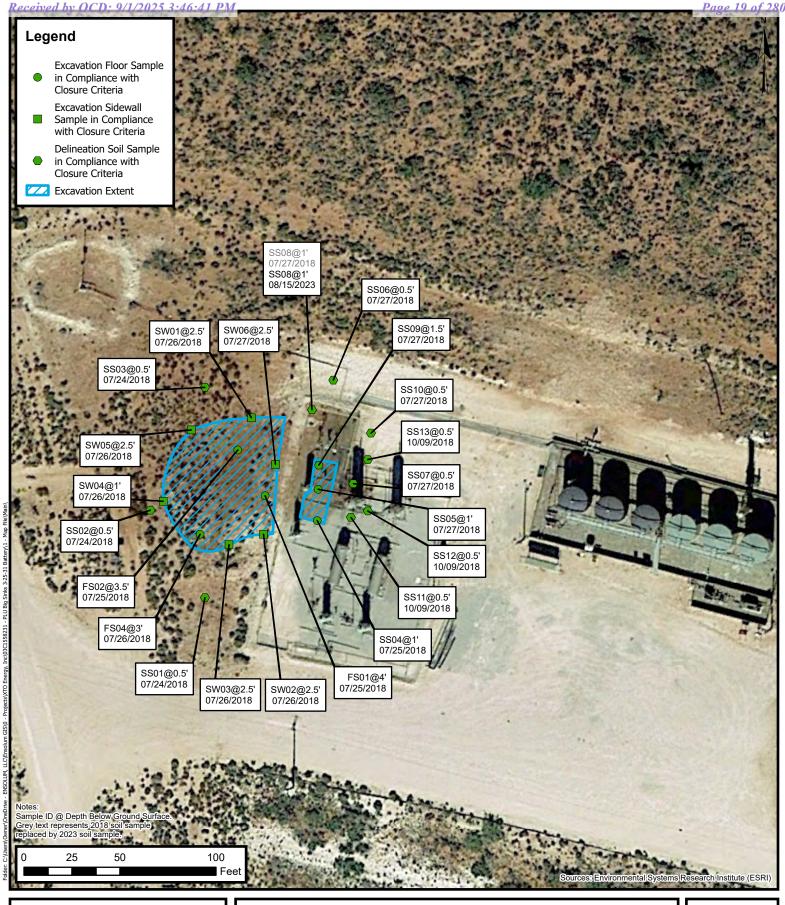
FIGURES





PLU Big Sinks 3-25-31 Battery Incident Number: nAB1731042349 Unit A, Section 4 ,Township 25 South, Range 31 East Eddy County, New Mexico

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Delineation and Excavation Soil Sample Locations

XTO Energy, Inc.
PLU Big Sinks 3-25-31 Battery
Incident Number: nAB1731042349
Unit A, Section 4, Township 25 South, Range 31 East
Eddy County, New Mexico

FIGURE 2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU Big Sinks 3-25-31 Battery XTO Energy, Inc. Eddy County, New Mexico

Sample I.D.	Sample Date	Sample 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 Table I C	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Asse	ssment Soil Sa	mples				
SS01*	7/24/2018	0.5	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<4.99
SS02*	7/24/2018	0.5	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	20.0
SS03*	7/24/2018	0.5	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	<4.97
SS06	7/27/2018	0.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	24.6
SS07	7/27/2018	0.5	<0.00199	<0.00199	<15.0	753	<15.0	753	753	1,100
SS08	7/27/2018	1.0	<0.00202	0.0282	73.8	2510	43.8	2,580	2,630	40.7
SS08	8/15/2023	1.0	<0.00200	<0.00400	<49.7	567	88.4	567	655	124
SS10	7/27/2018	0.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	7.92
SS11	10/9/2018	0.5	<0.0100	<0.0100	17.7	<15.0	<15.0	17.7	17.7	<4.98
SS12	10/9/2018	0.5	<0.00202	<0.00202	25.8	<15.0	<15.0	25.8	25.8	<4.96
SS13	10/9/2018	0.5	<0.00199	<0.00199	<14.9	<14.9	<14.9	<14.9	16.1	<5.00
				Excava	tion Floor Soil	Samples				
FS01*	7/25/2018	4.0	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	221
FS02*	7/25/2018	3.5	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	30.7
FS04*	7/26/2018	3.0	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	15.1
SS04	7/25/2018	1.0	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	12.3
SS05	7/27/2018	1.0	<0.00199	<0.00199	<14.9	77.3	<14.9	77.3	77.3	149
SS09	7/27/2018	1.5	<0.00201	0.0328	82.4	605	20.4	687	708	393
				Excavati	on Sidewall So	il Samples				
SW01*	7/26/2018	2.5	<0.00201	<0.00201	<15.0	16.8	<15.0	16.8	16.8	26.7
SW02*	7/26/2018	2.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<4.98
SW03*	7/26/2018	2.5	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<4.99
SW04*	7/26/2018	1.0	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	<4.98
SW05*	7/26/2018	2.5	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	9.04
SW06*	7/26/2018	2.5	<0.00199	<0.00199	<14.9	50.9	<14.9	50.9	50.9	159

Notes:

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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

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text indicates 2018 soil sample location that was re-sampled in 2023.

*indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.



APPENDIX A

Referenced Well Records

								Sample Name: BH01/C-04762	Date: 8/09/2023
		-						Site Name: PLU Big Sinks 3-25-31 I	<u> </u>
	4		N	SC) L	U	V	Incident Number: nAB1731042349	
200								Job Number: 03C1558231	
		LITHOL	OGIO	C / SOIL SAM	IPLING LO	OG		Logged By: M. O'Dell/S. Welvang	Method: Air Rotary Rig
Coordina	ates: 32.1							Hole Diameter: 5 1/4"	Total Depth: 110'
				were conducte	d.			·	
re t	e (۲ _	ള	\Box	Sampl		ock J		
Aoisture Content	Chloride (ppm)	Vapor (ppm)	ini	ple	e	Depth	SCS/Roc Symbol	Lithologic Do	escriptions
Moisture Content	Chloride (ppm)	ς σ	Staining	Sample ID	Depth	(ft bgs)	USCS/Rock Symbol		•
_				<i>V</i>	(ft bgs)	0	\supset		
					1 4	_			
					†	10	ССНЕ	0-10'. Caliche with trace san	
]]	- ·		red sand, very fine to mediu	ım grained, subrounded
					+	-		to subangular, well graded,	
					1 I	20	SP	10-20'. Sand with trace calid	
					+	•		very fine to fine grained, po to subangular grains, dry.	orly graded, subrounded
					1 1	•			
					4	30	SP	30-110'. Sand, rust color (re tine to fine grained, poorly a	ddish orange), very
					†	•		subrounded, dry.	Sidded, Sabarigaidi to
] -	40			
					+	_ 40			
					1 1	-			
					+	50			
					1 1	_ 50			
					-	_			
					1 1	60		~60'. Injecting soapy water i	mixture
					+				
					1 1	_			
					4	70			
					†	•		@ 75' bgs, hole collapsed du	ue to sandy conditions.
					1 1	-		No evidence of water through	
					1 J	80			
					†				
					1	- ·			
					4	_ 90			
						_			
						,			
					+	_ 100			
					1 1	_			
					1 7			4401 D. 2112	
					1 +	_ 110		110'. Drilling stopped.	
						Total D	epth @	110'.	
					-				

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 749283 File Nbr: C 04762

Jul. 25, 2023

BENJAMIN BELILL ENSOLUM LLC 3122 NATIONAL PARKS HIGHWAY CARLSBAD, NM 88220

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Rodolfo Chavez (575) 622-6521

Rochiff Change

Enclosure

explore

File No. C-04762 POD1

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT



(check applicable box):

Purpose:	Pollution Control And/Or Recovery	☐ Ground So	urce Heat Pump
Exploratory Well (Pump test)	Construction Site/Put Works Dewatering	olic Other(Desc	cribe):
Monitoring Well	☐ Mine Dewatering		
A separate permit will be required	to apply water to beneficial us	se regardless if use is consumptiv	e or nonconsumptive.
Temporary Request - Request	ted Start Date: 7/20/2023	Requested Er	nd Date: TBD
Plugging Plan of Operations Subr	mitted? Yes No		
. APPLICANT(S)			
. APPLICANT(S)			
Name:		Name: Ensolum, LLC	
Name:	check here if Agent		check here if Agent
Name: XTO Energy, Inc Contact or Agent:	check here if Agent	Ensolum, LLC	check here if Agent
Name: XTO Energy, Inc Contact or Agent: Garrett Green Mailing Address:	check here if Agent	Ensolum, LLC Contact or Agent:	
Name: XTO Energy, Inc Contact or Agent: Garrett Green Mailing Address: 3401 E. Greene Street City:	check here if Agent	Ensolum, LLC Contact or Agent: Benjamin Belill Mailing Address:	
Name: XTO Energy, Inc Contact or Agent: Garrett Green Mailing Address: 3401 E. Greene Street City: Carlsbad State:	check here if Agent ☐ Zip Code: 88220	Ensolum, LLC Contact or Agent: Benjamin Belill Mailing Address: 3122 National Parks Highway City:	
Name: XTO Energy, Inc Contact or Agent: Garrett Green Mailing Address: 3401 E. Greene Street City: Carlsbad	Zip Code:	Ensolum, LLC Contact or Agent: Benjamin Belill Mailing Address: 3122 National Parks Highway City: Carlsbad State:	/ Zip Code.

OSE DII JUL 7 2023 #411:21

File No.: C-04762 Tm. No.: 749283 Receipt No.: 2-4	5957
Trans Description (optional)	5 / 5 /
Sub-Basin: CUB PCW/LOG Due Date: 7/25/24	(

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2. WELL(S) Describe the well(s)	applicable to this app	plication.	
(Lat/Long - WGS84).		•	ate Plane (NAD 83), UTM (NAD 83), <u>or</u> Latitude/Longitude a PLSS location in addition to above.
NM State Plane (NAD83) NM West Zone NM East Zone NM Central Zone	`	JTM (NAD83) (Meter]Zone 12N]Zone 13N	Lat/Long (WGS84) (to the nearest 1/10 th of second)
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
C-04762 Pod	-103.77133	32.16299	Unit E, Sec 03, T25S, R31E, Eddy County
•			

Approximate depth of well (feet): 110 Driller Name: Scarborough Drilling

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

If yes, how many_

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Additional well descriptions are attached:

Yes

No

Well is on land owned by Federal - Bureau of Land Management

Other description relating well to common landmarks, streets, or other: Located on an off-pad area near caliche access road (32.16299, -103.77133).

One soil boring to be advanced at the site to assess subsurface soil and regional groundwater depth. Temporary 2-inch inside diameter PVC well screen will be placed in open borehole to determine depth to water at the site. The borehole will be abandoned after 72 hours from the time the borehole is completed. The borehole location is depicted on the attached figure.

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 - POD Descriptions)

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached?

If yes, how many

Outside diameter of well casing (inches): 2

Driller License Number: WD-1188

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FOR OSE INTERNAL USE

Application for Permit, Form WR-07

le No.: C04762 POD 1

749783

	QUIREMENTS: The applicant must include the information has been included and/or a		h well type. Płease check the appropriate
Exploratory: Include a description of any proposed pump test, if applicable. Monitoring: Include the reason for the monitoring well, and. The duration of the planned monitoring.	Pollution Control and/or Recovery: Include a plan for pollution control/recovery, that includes the following: A description of the need for the pollution control or recovery operation. The estimated maximum period of time for completion of the operation. The annual diversion amount. The annual consumptive use amount. The maximum amount of water to be diverted and injected for the duration of the operation. The method and place of discharge. The method of measurement of water produced and discharged. The source of water to be injected. The method of measurement of water injected. The characteristics of the aquifer. The method of determining the resulting annual consumptive use of water and depletion from any related stream system. Proof of any permit required from the New Mexico Environment Department. An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	Construction De-Watering: Include a description of the proposed dewatering operation, The estimated duration of the operation, The maximum amount of water to be diverted, A description of the need for the dewatering operation, and, A description of how the diverted water will be disposed of. Ground Source Heat Pump: Include a description of the geothermal heat exchange project, The number of boreholes for the completed project and required depths. The time frame for constructing the geothermal heat exchange project, and, The duration of the project. Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	Mine De-Watering: Include a plan for pollution control/recovery, that includes the following: A description of the need for mine dewatering. The estimated maximum period of time for completion of the operation. The source(s) of the water to be diverted. The geohydrologic characteristics of the aquifer(s). The maximum amount of water to be diverted per annum. The maximum amount of water to be diverted for the duration of the operation. The quality of the water. The method of measurement of water diverted. The recharge of water to the aquifer. Description of the estimated area of hydrologic effect of the project. The method and place of discharge. An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. A description of the methods employed to estimate effects on surface water rights and underground water rights. Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
I We (name of	applicant(s)), Benjamin Belill	KNOWLEDGEMENT	
	Proregoing statements are true to the best of (rint Name(s)	
Benjam	in Dolill Digitally signed by Benjamin I	Belill	
Applicant Signa	3901	Applicant Signature	9
	ACTION	OF THE STATE ENGINEER	
Mexico nor de Witness my har	Depproved not exercised to the detriment of any others strimental to the public welfare and further stand and seal this 25 day of	having existing rights, and is not oubject to the attached conditions of the attached. 20 2-3 , State Engineer	for the State Engineer, OSE DIT JUL 7 29 SAULUSIO
Title: We	ter Resource Manage	r I	

FOR OSE INTERNAL USE

File No.: (

Application for Permit, Form WR-07

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m No .: 749283

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NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- The well authorized by this permit shall be plugged completely 17-6 using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

File Number: C 04762 Trn Desc: C 04762 POD1 Trn Number: 749283

page: 1

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.

 The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: C 04762 POD1 File Number: C 04762
Trn Number: 749283

page: 2

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04762 POD1 must be completed and the Well Log filed on or before 07/24/2024.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected:
Formal Application Rcvd: 07/07/2023 Pub. of Notice Ordered:
Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 25 day of Jul A.D., 2023

Mike A. Hamman, P.E. , State Engineer

By: K. Parela

KASHYAP PAREKH

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Trn Desc: <u>C 04762 POD1</u> File Number: <u>C 04762</u>

Trn Number: 749283

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page: 3



STATE OF NEW MEXICO

OFFICE OF THE STATE ENGINEER ROSWELL

Mike A. Hamman, P.E.

State Engineer

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

July 10, 2023

XTO Energy Inc. 3401 E. Greene Street Carlsbad, NM 88220

RE: Well Plugging Plan of Operations for well no. C-4762-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Well Plugging Plan of Operations form (WD-08) has been updated. Current form can be found on the OSE website at the following link https://www.ose.state.nm.us/Statewide/wdForms.php.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

Received by OCD: 9/1/2025 3:46:41 PM

Kashyap Parekh

Water Resources Manager I



STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521

Fax: (575) 623- 8559

Applicant has identified wells, listed below, to be plugged. Scarborough Drilling Inc. (WD-1188) will perform the plugging.

Permittee: XTO Energy Inc. NMOSE Permit Number: C-4762-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4762-POD1	8.0 (Soil Boring)	110	Unknown	32° 9' 46.76''	103° 46' 16.78''

Specific Plugging Conditions of Approval for Well located in Eddy County, New Mexico.

- 1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
- 2. Ground Water encountered: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 287.0 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 110 feet.
- 3. Dry Hole: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 26.0 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet.
- 4. Ground Water encountered: Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for the plugging the well.
- 5. Dry Hole: (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet Hydrated bentonite. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.
- 6. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces

the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.

- 7. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. and 4. of these Specific Conditions of Approval.
- 8. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
- 9. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
- 10. NMOSE witnessing of the plugging of the soil boring will not be required.
- 11. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
- 12. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 10th day of July 2023

Mike A. Hamman, P.E. State Engineer

Bv:

Kashyap Parekh Water Resources Manager I Released to Imaging: 9/12/2025 11:37:07 AM

K. Parel





WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

<u>l. f II</u>	ING FEE: There is no fill	ng tee for this form.			
	ENERAL WELL OWNE				wells on the same site and attaching WD
Existi	ng Office of the State Eng	gineer POD Number	(Well Number	r) for well to be plugged	TBD C-4762-1
Name	of well owner: XTO Ene	rgy Inc			
Mailin	g address: 3401 E. Green	ne Street		County: _	Eddy
City:	Carlsbad		State:	New Mexico	Zip code:88220
Phone	number: 575-200-0729		E-ma	il: Garrett,Green@Exxon	Mobil.com
	ELL DRILLER INFORM				
Well I	Oriller contracted to provide	plugging services:	Scarborough D	rilling Inc	
New N	Mexico Well Driller License	No.: WD-1188		Expiration Da	te: 3/31/2024
	A copy of the existing Well GPS Well Location: Reason(s) for plugging v	LJsupplemental form V I Record for the well Latitude: 33 Longitude: 1	VD-08m and skip (s) to be plugge deg,	to #2 in this section. d should be attached to th 9 min, 46.76 46 min, 16.78	toring wells on the same site and attack is plan. Sec sec, NAD 83 EDIT JUL 7 2023 and 11:21
	Monitoring well to be plu encountered	gged when no longer	needed. Dry be	orehole will be plugged wit	hin 3 days of completion if
3)	what hydrogeologic par	ameters were monito	ored. If the w		ction VII of this form to detail contaminated or poor quality prior to plugging.
4)	Does the well tap brack	sh, saline, or otherwi	se poor quality	water? NA I	f yes, provide additional detail,
	including analytical resu	Its and/or laboratory	report(s):		
5)	Static water level:	NA feet belov	v land surface /	feet above land surface	(circle one)
6)	Depth of the well:	110 feet			

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	sod to Imagi
	used to Imaga
	used to Imaga
	used to Imaga
	passed to Imaga
	passed to Imaga
	used to Imaga

7)	Inside diameter of innermost casing:inches.
,	
8)	Casing material: Temporary SCH 40 PVC
9)	The well was constructed with:
	an open-hole production interval, state the open interval:
	a well screen or perforated pipe, state the screened interval(s): NA
10)	What annular interval surrounding the artesian casing of this well is cement-grouted?
11)	Was the well built with surface casing?NOIf yes, is the annulus surrounding the surface casing grouted or
ŕ	otherwise sealed? NA If yes, please describe:
12)	Has all pumping equipment and associated piping been removed from the well? NA If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.
V. DE	SCRIPTION OF PLANNED WELL PLUGGING: If plugging method differs between multiple wells on same site, a separate form must be completed for each method.
diagram	this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such ysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.
Also, if the	his planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.
1)	Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology
	proposed for the well:
	Temporary 2 inch well will be removed. If no water is encountered, drill cuttings will be used to ten feet below ground surface (bgs) and plugged from 0 to 10 feet bgs with hydrated bentonite. If groundwater is encountered, borehole will be plugged, tremie pipe from the bottom upwards to a slurry of Type I/II neat cement.
2)	Will well head be cut-off below land surface after plugging?
	LUGGING AND SEALING MATERIALS:
Note: T	he plugging of a well that taps poor quality water may require the use of a specialty cement or specialty scalant. Attach a copy of the batch mix recented to company and/or product description for specialty cement mixes or any scalant that deviates from the list of OSE approved scalants.
1)	For plugging intervals that employ cement grout, complete and attach Table A.
2)	For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
3)	Theoretical volume of grout required to plug the well to land surface: 287 gallons(8 inch borehole)
4)	Type of Cement proposed: Type I/II Neat Cement
5)	Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement.
6)	Will the grout be:batch-mixed and delivered to the siteX mixed on siteX

7)

8)

NA

NΑ

nin Belill	Digitally signed by Benjamin Belill	
	Date: 2023.07.06 10:33:20 -04'00'	
Signatu	re of Applicant	1
		, 202
ike A.	Hannan P.E., New	/ Mexico State Engin
Ву:	K-Parek KASMIAP	PAREK .M.I
	nditions. led on the attach day of	nditions. led on the attached letter. Tuly Lee A. Hunnan P.E., New By: KASMIAP

Grout additives requested, and percent by dry weight relative to cement:

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

Additional notes and calculations:

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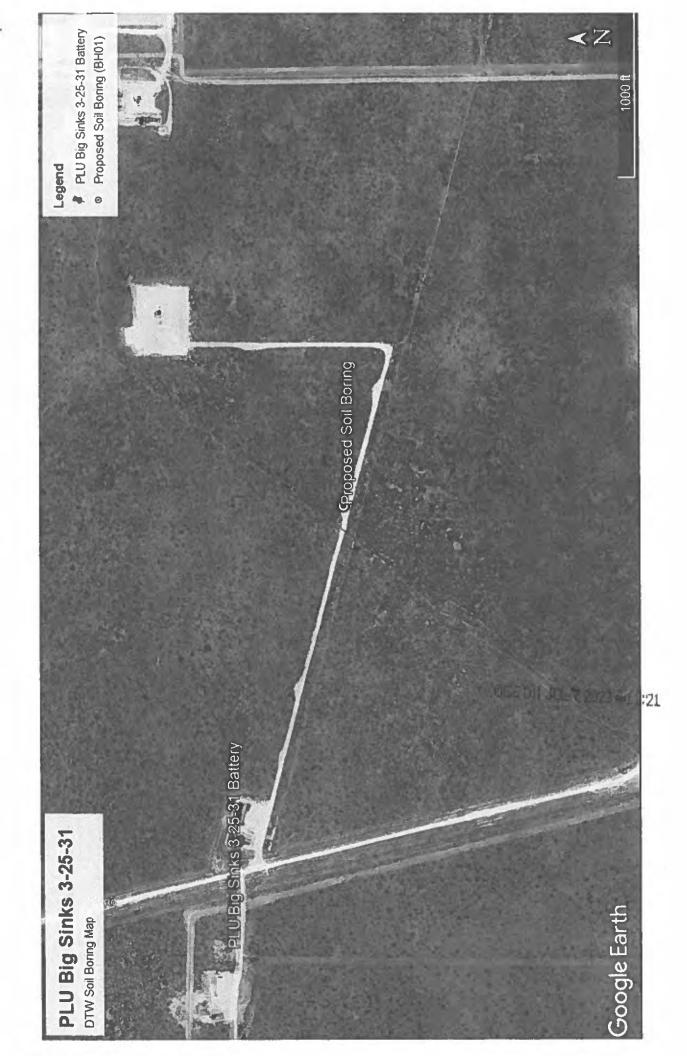
TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 - deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	NA	NA	0
Bottom of proposed interval of grout placement (ft bgl)	NA	NA	110
Theoretical volume of grout required per interval (gallons)	NA	NA	287
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	NA	NA	<6.0
Mixed on-site or batch- mixed and delivered?	NA	NA	onsite
Grout additive 1 requested	NA	NA	NA
Additive 1 percent by dry weight relative to cement	NA	NA	NA
Grout additive 2 requested	NA	NA	NA
Additive 2 percent by dry weight relative to cement	NA	NA	NA DSE DII JUL 7 2023 #11:2

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	NA	NA	0
Bottom of proposed sealant of grout placement (ft bgl)	NA	NA	10
Theoretical volume of sealant required per interval (gallons)	NA	NA	26
Proposed abandonment sealant (manufacturer and trade name)	NA	NA	Bariod Hole Plug

OSE OT JUL 7 2023 m11:21



From:

Green, Garrett J

To:

Aimee Cole; Tacoma Morrissey; Kalei Jennings; Ben Belill

Cc:

Baker, Adrian

Subject:

NMOSE Permit Permission

Date:

Wednesday, May 18, 2022 5:56:20 PM

[**EXTERNAL EMAIL**]

NMOSE,

The following Ensolum personnel have permission to submit and sign NMOSE well permitting documents on behalf of XTO Energy, Inc.

Ashley Ager Aimee Cole Tacoma Morrissey Kalei Jennings Ben Belill

Thank you,

Sent from my iPhone

OSE ON JUL 7 2023 m11:21

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United States Department of the Interior

BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 E. Greene St. Carlsbad, NM 88220-6292

In Reply Refer To: 3162.4 (NM-080)

July 3, 2023

NM Office of the State Engineer 1900 W. Second St. Roswell, NM 88201

Re: Poker Lake Unit CVX JV BS 30H

30-015-39930

32.192389, -103.780346 Eddy County, New Mexico

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To Whom It May Concern:

The above well location and the immediate area mentioned above requires advanced soil boring to take place at approximately 110 feet below ground surface. The boring will be secured and left open for 72 hours at which time XTO Energy, Inc will assess for the presence or absence of groundwater. Temporary PVC well material will be placed to total depth of the boring and secured at the surface. If water is encountered at any point during the boring, installation of the soil boring will be plugged using Portland Type 1/11 neat cement less than 6.0 gallons of water per 94lb sack. If no water is encountered, then the soil boring will be plugged. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish depth to groundwater determination of this site.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

CRISHA MORGAN MORGAN

Digitally signed by CRISHA MORGAN

Date: 2023.07.03 11:26:30 -06'00'

Released to Imaging: 9/12/2025 11:37:07 AM

Crisha A. Morgan

Certified Environmental Protection Specialist

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

5. Lease Serial No. Albania 105561215

SUNDRY NOTICES AND REPORTS ON WELLS

NMINIMIU0001210						
6. If Indian, Allottee or Tribe Name						

		to drill or to re-enter an APD) for such proposals			
SUBMIT IN	TRIPLICATE - Other instr	uctions on page 2		7. If Unit of CA/Agreen	nent, Name and/or No.
1. Type of Well Gas W	/ell [✓] Other	Soil Boring for determination of lepth to groundwater		8. Well Name and No. P	Poker Lake Unit CVX JV BS #030H
2. Name of Operator XTO Energy. Inc	>.			9. API Well No. 30-015	-42496 (nearest active well)
3a. Address 3104 E. Greene Street, 88220	Carlsbad, New Mexico,	3b. Phone No. (include area code (575) 200-0729	e)	10. Field and Pool or Ex	xploratory Area
4. Location of Well (Footage, Sec., T.,R	.,M., or Survey Description,)		11. Country or Parish, S	tate
F-03-25S-31E, Latitude 32.162730), Longitude -103.770003			Eddy County, New N	Mexico
12. CHE	CK THE APPROPRIATE B	OX(ES) TO INDICATE NATURE	E OF NOT	ICE, REPORT OR OTHE	ER DATA
TYPE OF SUBMISSION		TY	PE OF AC	TION	
Notice of Intent	Acidize Alter Casing	Deepen Hydraulic Fracturing		duction (Start/Resume) lamation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair Change Plans	New Construction Plug and Abandon		omplete nporarily Abandon	Other
Final Abandonment Notice	Convert to Injection	Plug Back	Wat	er Disposal	
the Bond under which the work will completion of the involved operation	ally or recomplete horizontal I be perfonned or provide the ons. If the operation results it	lly, give subsurface locations and n the Bond No. on file with BLM/BIA in a multiple completion or recomp	neasured a L. Required oletion in a	and true vertical depths of d subsequent reports must a new interval, a Form 316	all pertinent markers and zones. Attach
soil boring will be located in an hours, to allow for the slow infil the 72 hour waiting period, the	completed to a depth of an off pad area near an acti I of groundwater. An oil-w soil boring will be backfill	oproximately 110 feet below gro ve lease road (32.162730, -103 vater interface probe will be utili:	ound surfa 3.770003) zed to co xico Offic	ace for determination of The soil boring will be nfirm depth to groundwa of the State Engineer	regional groundwater depth. The

OSE ON JUL 7 2023 mil:21

14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>) Garrett Green Ti	SSHE Coordinator		
Signature Signature D	ate 6/14/2023		
THE SPACE FOR FEDER	AL OR STATE OFICE U	ISE	
Approved by CRISHA MORGAN Digitally signed by CRISHA MORGA Date: 2023.07.03 10:50:35 -06'00'	Title EPS	Date 07/03/2023	
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.			
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any p	person knowingly and willfully to	make to any department or agency of the United !	States

any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Received by OCD: 9/1/2025 3:46:41 PM

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

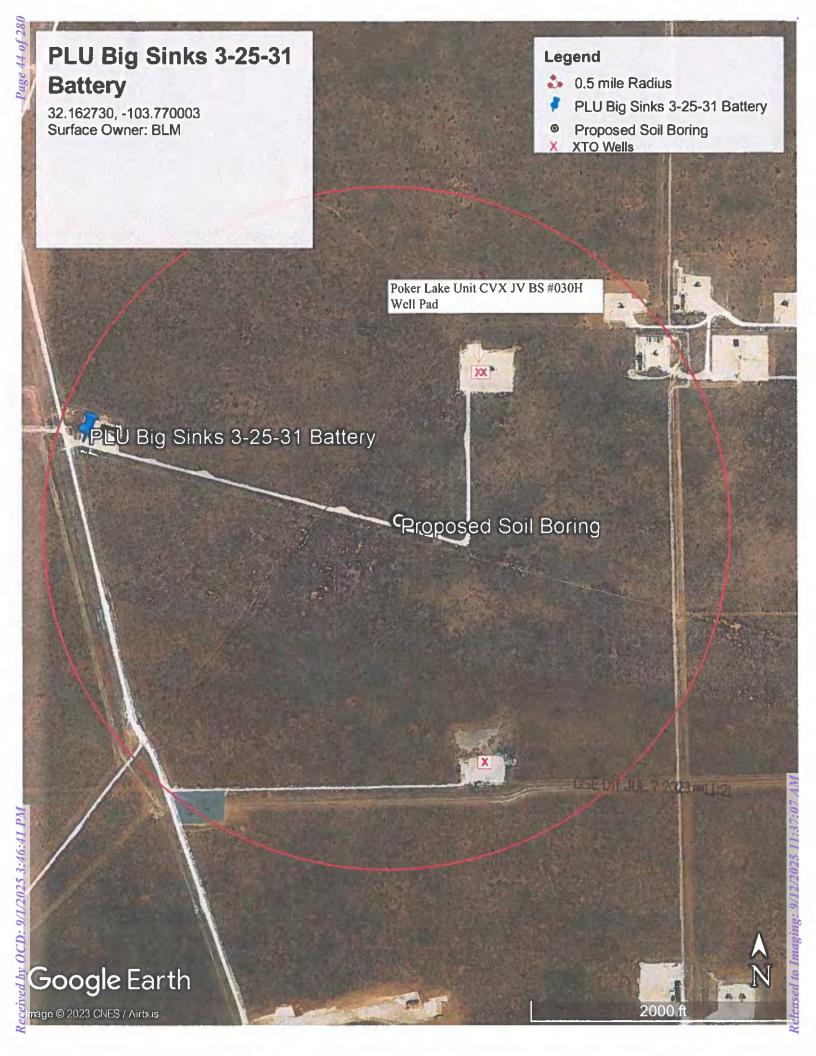
Response to this request is mandatory.

Received by OCD: 9/1/2025 3:46:41 PM

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

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APPENDIX B

Laboratory Analytical Report & Chain-of-Custody Documentation (2023)

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 8/25/2023 11:54:08 AM

JOB DESCRIPTION

PLU Bg Sinks 3-25-31 Battery SDG NUMBER 03C1558231

JOB NUMBER

890-5100-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 8/25/2023 11:54:08 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies 8/25/2023

Client: Ensolum Project/Site: PLU Bg Sinks 3-25-31 Battery Laboratory Job ID: 890-5100-1 SDG: 03C1558231

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Definitions/Glossary

Job ID: 890-5100-1 Client: Ensolum Project/Site: PLU Bg Sinks 3-25-31 Battery

SDG: 03C1558231

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

¤ Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit Contains No Free Liquid **CNF**

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL ML Minimum Level (Dioxin) MPN Most Probable Number MOI Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: PLU Bg Sinks 3-25-31 Battery

Job ID: 890-5100-1

SDG: 03C1558231

Job ID: 890-5100-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5100-1

Receipt

The sample was received on 8/15/2023 3:02 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS08 (890-5100-1).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-60963 recovered below the lower control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-60963/20).

Method 8021B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-61015 and analytical batch 880-60963. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-60930 and analytical batch 880-60956 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60956/20), (CCV 880-60956/31) and (CCV 880-60956/5). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-60457 and analytical batch 880-60463 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: SS08 (890-5100-1), (890-5099-A-11-A), (890-5099-A-11-B MS) and (890-5099-A-11-C MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum Job ID: 890-5100-1 Project/Site: PLU Bg Sinks 3-25-31 Battery SDG: 03C1558231

Client Sample ID: SS08 Lab Sample ID: 890-5100-1

Date Collected: 08/15/23 13:00 Date Received: 08/15/23 15:02 Matrix: Solid

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		08/24/23 13:35	08/25/23 09:36	
Toluene	<0.00200	U	0.00200	mg/Kg		08/24/23 13:35	08/25/23 09:36	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/24/23 13:35	08/25/23 09:36	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/24/23 13:35	08/25/23 09:36	
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/24/23 13:35	08/25/23 09:36	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/24/23 13:35	08/25/23 09:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	84		70 - 130			08/24/23 13:35	08/25/23 09:36	
1,4-Difluorobenzene (Surr)	91		70 - 130			08/24/23 13:35	08/25/23 09:36	
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/25/23 09:38	
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	655		49.7	mg/Kg			08/25/23 11:26	
Method: SW846 8015B NM - D	iesel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		08/23/23 16:00	08/24/23 19:04	
Diesel Range Organics (Over C10-C28)	567		49.7	mg/Kg		08/23/23 16:00	08/24/23 19:04	
Oll Range Organics (Over C28-C36)	88.4		49.7	mg/Kg		08/23/23 16:00	08/24/23 19:04	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	101		70 - 130			08/23/23 16:00	08/24/23 19:04	
o-Terphenyl	98		70 - 130			08/23/23 16:00	08/24/23 19:04	
Method: EPA 300.0 - Anions, I	on Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Released to Imaging: 9/12/2025 11:37:07 AM

Surrogate Summary

Client: Ensolum
Project/Site: PLU Bg Sinks 3-25-31 Battery

Job ID: 890-5100-1
SDG: 03C1558231

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-			
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-32063-A-1-E MS	Matrix Spike	96	91
880-32063-A-1-F MSD	Matrix Spike Duplicate	107	117
890-5100-1	SS08	84	91
LCS 880-61015/1-A	Lab Control Sample	89	96
LCSD 880-61015/2-A	Lab Control Sample Dup	91	96
MB 880-60970/5-A	Method Blank	95	112
MB 880-61015/5-A	Method Blank	101	119
Surrogate Legend			
BFB = 4-Bromofluorober	zene (Surr)		

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5100-1	SS08	101	98	
890-5137-A-1-E MS	Matrix Spike	125	114	
890-5137-A-1-F MSD	Matrix Spike Duplicate	124	112	
LCS 880-60930/2-A	Lab Control Sample	123	129	
LCSD 880-60930/3-A	Lab Control Sample Dup	122	129	
MB 880-60930/1-A	Method Blank	162 S1+	175 S1+	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-5100-1 SDG: 03C1558231 Project/Site: PLU Bg Sinks 3-25-31 Battery

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60970/5-A

Matrix: Solid Analysis Batch: 60963 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60970

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/24/23 09:32	08/24/23 13:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/24/23 09:32	08/24/23 13:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/24/23 09:32	08/24/23 13:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/24/23 09:32	08/24/23 13:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/24/23 09:32	08/24/23 13:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/24/23 09:32	08/24/23 13:28	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	08/24/23 09:32	08/24/23 13:28	1
1,4-Difluorobenzene (Surr)	112		70 - 130	08/24/23 09:32	08/24/23 13:28	1

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 61015

Matrix: Solid Analysis Batch: 60963

Lab Sample ID: MB 880-61015/5-A

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/24/23 13:35	08/25/23 01:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/24/23 13:35	08/25/23 01:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/24/23 13:35	08/25/23 01:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/24/23 13:35	08/25/23 01:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/24/23 13:35	08/25/23 01:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/24/23 13:35	08/25/23 01:50	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/24	/23 13:35	08/25/23 01:50	1
1,4-Difluorobenzene (Surr)	119		70 - 130	08/24.	/23 13:35	08/25/23 01:50	1

Lab Sample ID: LCS 880-61015/1-A

Matrix: Solid

Analysis Batch: 60963

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 61015

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1050		mg/Kg		105	70 - 130	
Toluene	0.100	0.1056		mg/Kg		106	70 - 130	
Ethylbenzene	0.100	0.1016		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2027		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.09374		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	89	70 - 130
1.4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: LCSD 880-61015/2-A

Matrix: Solid

Analysis Batch: 60963

	Client Sample ID: Lab Control Sample Du					
	Prep Type:	Total/NA				
	Prep Bato	h: 61015				
LCSD LCSD	%Rec	RPD				

Spike Result Qualifier Analyte Added Unit %Rec Limits RPD Limit Benzene 0.100 0.08366 mg/Kg 84 70 - 130 23 35

QC Sample Results

Client: Ensolum Job ID: 890-5100-1 SDG: 03C1558231 Project/Site: PLU Bg Sinks 3-25-31 Battery

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-61015/2-A

Matrix: Solid Analysis Batch: 60963 **Client Sample ID: Lab Control Sample Dup**

Prep Type: Total/NA Prep Batch: 61015

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08230		mg/Kg		82	70 - 130	25	35
Ethylbenzene	0.100	0.07421		mg/Kg		74	70 - 130	31	35
m-Xylene & p-Xylene	0.200	0.1453		mg/Kg		73	70 - 130	33	35
o-Xylene	0.100	0.07020		mg/Kg		70	70 - 130	29	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-32063-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 60963

Prep Type: Total/NA

Prep Batch: 61015

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F1	0.0996	0.07900		mg/Kg		79	70 - 130	
Toluene	0.00303	F1	0.0996	0.07784		mg/Kg		75	70 - 130	
Ethylbenzene	<0.00198	U F1 F2	0.0996	0.07456		mg/Kg		74	70 - 130	
m-Xylene & p-Xylene	<0.00396	U F1 F2	0.199	0.1556		mg/Kg		77	70 - 130	
o-Xylene	<0.00198	U F1 F2	0.0996	0.07334		mg/Kg		73	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1,4-Difluorobenzene (Surr)	91	70 - 130

Lab Sample ID: 880-32063-A-1-F MSD

Matrix: Solid

Analysis Batch: 60963

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 61015

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	0.00303	F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00198	U F1 F2	0.101	<0.00202	U F1 F2	mg/Kg		-0.4	70 - 130	197	35
m-Xylene & p-Xylene	< 0.00396	U F1 F2	0.202	<0.00403	U F1 F2	mg/Kg		0.6	70 - 130	194	35
o-Xylene	<0.00198	U F1 F2	0.101	<0.00202	U F1 F2	mg/Kg		0.9	70 - 130	192	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-60930/1-A

Matrix: Solid

(GRO)-C6-C10

Analysis Batch: 60956

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 60930

Gasoline Range Organics

мв мв

Result Qualifier <50.0 U 50.0

Unit mg/Kg

Prepared 08/23/23 16:00

08/24/23 08:11

QC Sample Results

Client: Ensolum
Project/Site: PLU Bg Sinks 3-25-31 Battery

SDG: 03C1558231

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-60930/1-A

Matrix: Solid

Analysis Batch: 60956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60930

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/23/23 16:00	08/24/23 08:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/23/23 16:00	08/24/23 08:11	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130			08/23/23 16:00	08/24/23 08:11	1
o-Terphenyl	175	S1+	70 - 130			08/23/23 16:00	08/24/23 08:11	1

-		175 57.	70 - 130				00/2	3/23 10.00	00/24/25 00.11	'
Lab Sample ID: LCS 880-609 Matrix: Solid	930/2-A						Client	Sample	ID: Lab Control Prep Type: 1	
Analysis Batch: 60956									Prep Batch	
7 maryolo Batom 00000			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	1010		mg/Kg		101	70 - 130	
Diesel Range Organics (Over			1000	1087		mg/Kg		109	70 - 130	
C10-C28)										
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	123		70 - 130							
o-Terphenyl	129		70 - 130							

Lab Sample ID: LCSD 880-60930/3-A				Cliei	nt San	iple ID:	Lab Contro	اد Sampl	e Dup
Matrix: Solid							Prep ⁻	Type: To	tal/NA
Analysis Batch: 60956							Prep	Batch:	60930
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	_ D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1006		mg/Kg		101	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	998.9		mg/Kg		100	70 - 130	8	20
	Matrix: Solid Analysis Batch: 60956 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Matrix: Solid Analysis Batch: 60956 Spike Analyte Added Gasoline Range Organics 1000 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1000	Matrix: Solid Analysis Batch: 60956 Spike LCSD Analyte Added Result Gasoline Range Organics (GRO)-C6-C10 1000 1006 Diesel Range Organics (Over 1000 998.9	Matrix: Solid Analysis Batch: 60956 Spike LCSD LCSD Analyte Added Result Qualifier Gasoline Range Organics (GRO)-C6-C10 1000 1006 Diesel Range Organics (Over 1000 998.9	Matrix: Solid Analysis Batch: 60956 Spike LCSD LCSD Analyte Added Result Qualifier Unit Gasoline Range Organics (GRO)-C6-C10 1000 1006 mg/Kg Diesel Range Organics (Over 1000 998.9 mg/Kg	Matrix: Solid Analysis Batch: 60956 Spike LCSD LCSD <td>Matrix: Solid Analysis Batch: 60956 Spike LCSD LCSD<td>Matrix: Solid Prep 1 Analysis Batch: 60956 Spike LCSD LCSD WRec Analyte Added Result Qualifier Unit Unit D %Rec Limits Gasoline Range Organics (GRO)-C6-C10 1000 1006 mg/Kg 101 70 - 130 Diesel Range Organics (Over 1000 998.9 mg/Kg 100 70 - 130</td><td>Matrix: Solid Prep Type: To Prep Batch: Prep Batch: To Prep Ba</td></td>	Matrix: Solid Analysis Batch: 60956 Spike LCSD LCSD <td>Matrix: Solid Prep 1 Analysis Batch: 60956 Spike LCSD LCSD WRec Analyte Added Result Qualifier Unit Unit D %Rec Limits Gasoline Range Organics (GRO)-C6-C10 1000 1006 mg/Kg 101 70 - 130 Diesel Range Organics (Over 1000 998.9 mg/Kg 100 70 - 130</td> <td>Matrix: Solid Prep Type: To Prep Batch: Prep Batch: To Prep Ba</td>	Matrix: Solid Prep 1 Analysis Batch: 60956 Spike LCSD LCSD WRec Analyte Added Result Qualifier Unit Unit D %Rec Limits Gasoline Range Organics (GRO)-C6-C10 1000 1006 mg/Kg 101 70 - 130 Diesel Range Organics (Over 1000 998.9 mg/Kg 100 70 - 130	Matrix: Solid Prep Type: To Prep Batch: Prep Batch: To Prep Ba

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	129		70 - 130

114

Lab Sample ID: 890-5137-A-Matrix: Solid	-1-E MS							Client	•	: Matrix Spike ype: Total/NA
Analysis Batch: 60956									Prep	Batch: 60930
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	996	1110		mg/Kg		109	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.1	U	996	1043		mg/Kg		102	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	125		70 - 130							

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70 - 130

o-Terphenyl

Lab Sample ID: 890-5137-A-1-F MSD

Job ID: 890-5100-1 Client: Ensolum Project/Site: PLU Bg Sinks 3-25-31 Battery SDG: 03C1558231

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 60930

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.1	U	996	977.4		mg/Kg		96	70 - 130	13	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<50.1	U	996	1037		mg/Kg		101	70 - 130	1	20	
0.40, 0.00)												

C10-C28)

Matrix: Solid

Analysis Batch: 60956

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	124	70 - 130
o-Terphenyl	112	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60457/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 60463

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/17/23 17:15	1

Lab Sample ID: LCS 880-60457/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 60463

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	274.8		mg/Kg		110	90 - 110	

Lab Sample ID: LCSD 880-60457/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 60463

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	272.6		mg/Kg		109	90 - 110	1	20	

Lab Sample ID: 890-5099-A-11-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 60463

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	60.5	F1	251	354.6	F1	ma/Ka		117	90 110	

Lab Sample ID: 890-5099-A-11-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 60463

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	60.5	F1	251	354.8	F1	mg/Kg	_	117	90 - 110	0	20

QC Association Summary

Client: Ensolum

Project/Site: PLU Bg Sinks 3-25-31 Battery

Job ID: 890-5100-1

SDG: 03C1558231

GC VOA

Analysis Batch: 60963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5100-1	SS08	Total/NA	Solid	8021B	61015
MB 880-60970/5-A	Method Blank	Total/NA	Solid	8021B	60970
MB 880-61015/5-A	Method Blank	Total/NA	Solid	8021B	61015
LCS 880-61015/1-A	Lab Control Sample	Total/NA	Solid	8021B	61015
LCSD 880-61015/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61015
880-32063-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	61015
880-32063-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	61015

Prep Batch: 60970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60970/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 61015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5100-1	SS08	Total/NA	Solid	5035	
MB 880-61015/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61015/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61015/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-32063-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-32063-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 61106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5100-1	SS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5100-1	SS08	Total/NA	Solid	8015NM Prep	
MB 880-60930/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60930/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5137-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5137-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5100-1	SS08	Total/NA	Solid	8015B NM	60930
MB 880-60930/1-A	Method Blank	Total/NA	Solid	8015B NM	60930
LCS 880-60930/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60930
LCSD 880-60930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60930
890-5137-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	60930
890-5137-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	60930

Analysis Batch: 61128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5100-1	SS08	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum Job ID: 890-5100-1 Project/Site: PLU Bg Sinks 3-25-31 Battery

SDG: 03C1558231

HPLC/IC

Leach Batch: 60457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5100-1	SS08	Soluble	Solid	DI Leach	
MB 880-60457/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60457/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60457/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5099-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5099-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 60463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5100-1	SS08	Soluble	Solid	300.0	60457
MB 880-60457/1-A	Method Blank	Soluble	Solid	300.0	60457
LCS 880-60457/2-A	Lab Control Sample	Soluble	Solid	300.0	60457
LCSD 880-60457/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60457
890-5099-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	60457
890-5099-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	60457

Lab Chronicle

Client: Ensolum
Project/Site: PLU Bg Sinks 3-25-31 Battery

Job ID: 890-5100-1
SDG: 03C1558231

Client Sample ID: SS08 Lab Sample ID: 890-5100-1

Date Collected: 08/15/23 13:00 Matrix: Solid
Date Received: 08/15/23 15:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	61015	08/24/23 13:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60963	08/25/23 09:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61106	08/25/23 09:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			61128	08/25/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	60930	08/23/23 16:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60956	08/24/23 19:04	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	60457	08/17/23 11:22	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60463	08/17/23 18:32	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-5100-1 Project/Site: PLU Bg Sinks 3-25-31 Battery

SDG: 03C1558231

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-23-26	06-30-24
The following analytes the agency does not of	• '	ut the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
		Solid	Total BTEX	

Method Summary

Client: Ensolum

Project/Site: PLU Bg Sinks 3-25-31 Battery

Job ID: 890-5100-1

SDG: 03C1558231

aboratory	
ET MID	
ET MID	
ET MID	E

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum

Project/Site: PLU Bg Sinks 3-25-31 Battery

Job ID: 890-5100-1

SDG: 03C1558231

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5100-1	SS08	Solid	08/15/23 13:00	08/15/23 15:02	1

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Page 18 of 20

Released to Imaging: 9/12/2025 11:37:07 AM

Received by OCD: 9/1/2025 3:46:41 PM

Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _	

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City, State ZIP:	Car	Buar	INI	0052	120	City, Stat	e ZIP:	GV	1000			ON M	ahi	Com	,		EDD		ADaPT	_		
Phone:	MY)4 0	770	00.77	Email:	10gr	ICII	101	TCI	101		COLL	ונוטו	Colli								〓
Project Name:				5 31 Ba		Around							ANA	LYSIS REQU	IEST					Presen	rative Codes	-
Project Number:	03	(155	823	1	Routine	Rush		Pres. Code											1	ione: NO	DI Water: F	20
Project Location:				77174	Due Date:	1500	345					CHIMANIAN	M1100.100		1111111				1	ool: Cool	MeOH: Me	
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O #:	the lab, if rece			1		5												H ₂ SO ₄ : H ₂ NaOH: Na				
AMPLE RECEIPT		Temp B		Yes No	Wet Ice:	1	Yes No		5					IMM				1 1	H ₃ PO ₄ : HP			
Samples Received Intact: (Yes) No Thermometer ID:				1001	Parameters	3		890-5100 Chain of Custoo			dy	¥				NaHSO 4: NABIS Na >5 > O 3: NaSO 3						
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ample Custody Seals: otal Containers:				69		MON	I	到									NaOH+Ascorbic Acid: SAPC					
otal Containers.			1		T		Grab/	# -6	5	HOL	BTI											
Sample Identif	fication		Matrix	Date Sampled	Time Sampled	Depth	Comp	# of Cont	0	F	D.									Sample	e Comments	
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0001				10/2-12-0																DAB17	3104234	9
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tice: Signature of this docu																						司
service. Eurofins Xenco will	l be liable	only for the c	ost of samp	oles and shall not	assume any response	onsibility for a	iny losses o	r expens	es Incum	ed by the	e client if	such losses a	e due to c	ircumstances be	yond the co	ntrol						
Eurofins Xenco. A minimun	n charge	of \$85.00 will	be applied				ple submit	ted to Eu				1									D . Fi	=
Relinquished by: (Signature) Received by: (Signature			e)		Date/Time Relinquished by: (Signatu						ure)	Re	eceived	by: (Sigr	nature)		Date/Time					
1110	he	100	0	Volum				8-	15-	23	15,0	2										
												4										
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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-5100-1 SDG Number: 03C1558231

Login Number: 5100 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5100-1

SDG Number: 03C1558231

List Source: Eurofins Midland List Creation: 08/17/23 10:52 AM

List Number: 2 Creator: Teel, Brianna

Login Number: 5100

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	

True

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<6mm (1/4").

Containers requiring zero headspace have no headspace or bubble is



APPENDIX C

NMOCD Notifications

Tacoma Morrissey

From: Collins, Melanie <melanie.collins@exxonmobil.com>

Sent: Friday, April 14, 2023 1:06 PM **To:** Ashley Ager; Tacoma Morrissey

Cc: Green, Garrett J

Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID:

199381

[**EXTERNAL EMAIL**]

Denial 10/28/17 PLU BS 3-25-31 report due 6/30/23

From: Green, Garrett J <garrett.green@exxonmobil.com>

Sent: Tuesday, April 11, 2023 10:18 AM

To: Collins, Melanie <melanie.collins@exxonmobil.com>

Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 199381

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Friday, March 24, 2023 7:41 AM

To: Green, Garrett J <garrett.green@exxonmobil.com>

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 199381

External Email - Think Before You Click

To whom it may concern (c/o Garrett Green for BOPCO, L.P.),

The OCD has rejected the submitted *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF), for incident ID (n#) nAB1731042349, for the following reasons:

- The depth to groundwater has not been adequately determined. When nearby wells are used to determine
 depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no
 more than 25 years old, and well construction information should be provided in the submission. The
 responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in
 lieu of drilling to determine the depth to groundwater.
- Submit a report via the OCD permitting portal by 6/30/2023.

The rejected IM-BNF can be found in the OCD Online: Permitting - Action Status, under the Application ID: 199381. Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional IM-BNF.

Thank you, Ashley Maxwell From: <u>Collins, Melanie</u>

To: ocd.enviro@state.nm.us; Hamlet, Robert, EMNRD (Robert.Hamlet@emnrd.nm.gov); Harimon, Jocelyn, EMNRD

(Jocelyn.Harimon@emnrd.nm.gov)

Cc: <u>Green, Garrett J</u>; <u>DelawareSpills /SM</u>; <u>Ben Belill</u>

Subject: XTO - Sampling Notification (Week of 8/14/23 - 8/18/23)

Date: Thursday, August 10, 2023 9:28:49 AM

Attachments: <u>image001.png</u>

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of August 14, 2023.

Monday

- PLU BS 3-25-31 / nAB1731042349
- Nash 36 / nAPP2224236187

Tuesday

• Nash 36 / nAPP2224236187

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756



APPENDIX D

October 23, 2018 Closure Request

Advancing Opportunity

LT Environmental, Inc.

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

October 23, 2018

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

RE: Closure Request

PLU Big Sinks 3-25-31 Battery

Remediation Permit Number 2RP-4470

Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following letter report detailing excavation of impacted soil and confirmation soil sampling activities at the PLU Big Sinks 3-25-31 battery (Site) located in Unit A, Section 4, Township 25 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the excavation activities was to address impact to soil after a release of approximately 51 barrels (bbls) of oil and 6 bbls of produced water from a failed fire tube gasket on the heater treater. The release was discovered on October 28, 2017. Approximately 36 bbls of oil and 4 bbls of produced water were recovered using a vacuum truck. The release affected approximately 2,300 square feet of the caliche well pad, approximately 2,300 square feet of an adjacent pasture, and misted approximately 7,000 square feet of a pasture west of the Site. Micro-Blaze® was applied to the offsite vegetation. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on November 3, 2017, and was assigned Remediation Permit (RP) Number 2RP-4470 (Attachment 1). Based on the results of the confirmation sampling event conducted after impacted soil was removed, XTO is requesting no further action for this release.

BACKGROUND

Because the release and remediation work were conducted prior to August 14, 2018, LTE applied the NMOCD 1993 *Guidelines for Leaks, Spills, and Releases* for determining remediation action levels. Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data and known aquifer properties. The nearest permitted water well with depth to groundwater data is C 03891, located approximately 2.9 miles east of the release, with a depth to groundwater of 429 feet bgs and a total depth of 635 feet bgs. The Site is greater than 1,000 feet from a water source and greater than 1,000 feet from a private domestic water source. The closest surface water to the Site is a freshwater emergent wetland, located approximately 8,131 feet southeast of the Site. Based on these criteria, the





Bratcher, M. Page 2

NMOCD site ranking for remediation action levels is 0, and the following remediation action levels applied under the NMOCD 1993 *Guidelines for Leaks, Spills, and Releases*: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg benzene, toluene, ethylbenzene, and total xylenes (BTEX); and 5,000 mg/kg total petroleum hydrocarbons (TPH). Based on standard practice in this region, LTE applied a site-specific chloride action level of 600 mg/kg.

EXCAVATION ACTIVITIES AND SOIL SAMPLING

On July 24 to July 27, 2018, LTE personnel were on site to oversee the excavation of impacted soil. LTE scientists directed excavation activities based on field screening results to delineate petroleum hydrocarbon and chloride impacts to soil. Soil samples were screened for volatile aromatic hydrocarbons using a photo-ionization detector (PID) equipped with a 10.6 electron volt lamp in accordance with the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases*, August 13, 1993, and Hach® chloride QuanTab® test strips. There was one area excavated by hydro-vacuum around the equipment in the containment area and one excavation in the pasture area west of the pad where heavy equipment was utilized. The pasture excavation measured approximately 3,600 square feet in area with the depth ranging from approximately 1 foot to 4 feet bgs throughout the excavation. The well pad excavation measured approximately 450 square feet in area with the depth ranging from approximately 0.5 foot to 1.5 feet bgs throughout the excavation. The horizontal extent of the excavations are illustrated on Figure 2.

LTE collected 22 confirmation soil samples (SS01 through SS13, FS01, FS02, FS04, and SW01 through SW06) from the excavations and surrounding pasture area on July 24 to July 26, 2018, and on October 9, 2018. Soil samples SS01 through SS03 were collected in the pasture outside of the excavation to confirm there were no remaining impacts to the areas where Micro-Blaze® was applied. Soil samples SW01 through SW06, FS01, FS02, and FS04 were collected from the sidewalls and the floor of the pasture excavation. Soil samples SS04, SS05, and SS09 were collected from the hydro-vacuum excavated area on the well pad. Soil samples SS06 through SS08 and SS10 were collected on the well pad outside of the excavation extent to confirm lateral delineation. The soil samples were collected and placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler, method of analysis, and immediately placed on ice. The soil samples were shipped at 4 degrees Celsius (°C) under strict chain-of-custody procedures to Xenco Laboratories (Xenco) in Midland, Texas, for analysis of BTEX by United States Environmental Protection Agency (USEPA) Method 8021B, TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH- oil range organics (ORO) by USEPA Method 8015M/D, and chloride by USEPA Method 300.

Laboratory analytical results indicated that BTEX and total TPH concentrations were compliant with the NMOCD site-specific remediation action levels in all soil samples, except soil sample SS07. Soil sample SS07 results indicated chloride concentrations of 1,100 mg/kg exceeded the remediation action level of 600 mg/kg. On October 9, 2018, LTE returned to delineate the impacts around soil sample SS07 by collecting confirmation soil samples SS11 through SS13. The soil



Bratcher, M. Page 3

samples were collected and handled as previously described and submitted to Xenco in Midland, Texas.

Approximately 363 cubic yards of impacted soil were removed using a dump truck and hydrovacuum. Impacted soil was transported and properly disposed of at the Lea Land Landfill Halfway Facility, in Hobbs, New Mexico. Photographs of the open excavation are included as Attachment 2.

ANALYTICAL RESULTS

Laboratory analytical results indicated that all final confirmation soil samples were compliant with the NMOCD site-specific remediation action levels for BTEX, TPH, and chloride, except for soil sample SS07, which exceeded the NMOCD remediation action level for chloride. XTO's safety policy restricts soil disturbing activities to a 3-foot radius of process equipment. This safety policy is established to protect workers and to reduce the likelihood of compromising the integrity of the equipment. This policy was enforced along the eastern edge of the excavation where impacted soil was identified within three feet of a meter and the heater treater. The excavation was advanced to three feet from the equipment by hydro-vacuum and hand digging methods to remove as much impacted soil as possible around soil sample SS07. Laboratory analytical results for delineation soil samples SS11 through SS13 indicated that chloride concentrations were compliant with the remediation action level. Laboratory analytical results are presented on Figure 2 and summarized in Table 1, and the complete laboratory analytical reports are included as Attachment 3.

CONCLUSIONS

The impacted soil was excavated from the release areas and laboratory analytical results for the confirmation soil samples collected from the final excavation extents indicate that BTEX, TPH, and chloride concentrations are compliant with NMOCD site-specific remediation action levels, with the exception of soil sample SS07. Impacted soil was left in-place within three feet of process equipment per XTO's safety policy described above. XTO has successfully removed 363 cubic yards of impacted soil at the Site, leaving an estimated 6 cubic yards of soil near the heater treater containing 1,100 mg/kg of chloride in place. Due to the site ranking criteria of 0 for this Site, indicating potential receptors are significantly distant of any remaining impact, XTO requests no further action for release number 2RP-4470. Migration of the remaining chloride is unlikely to migrate vertically to groundwater upon backfilling excavations with caliche. Additionally, per the New Mexico Administrative Code rule 19.15.29.12 amended August 2018, soil sample SS07 would be compliant with the NMOCD Table 1 concentration for chloride.

Upon approval of the no further action request, XTO will backfill the excavations with material purchased locally and recontour the Site to match pre-existing site conditions. XTO will re-seed the pasture area with Bureau of Land Management seed mix #2 via drill or broadcast method. An





Bratcher, M. Page 4

updated NMOCD Form C-141 is included as Attachment 1. If you have any questions or comments, please do not hesitate to contact Ms. Adrian Baker at (432) 887-1255 or abaker@ltenv.com.

ashley L. ager

Ashley L. Ager, P.G.

Senior Geologist

Sincerely,

LT ENVIRONMENTAL, INC.

Adrian Baker Project Geologist

cc: Kyle Littrell, XTO

Maria Pruett, NMOCD Shelly Tucker, BLM

Attachments:

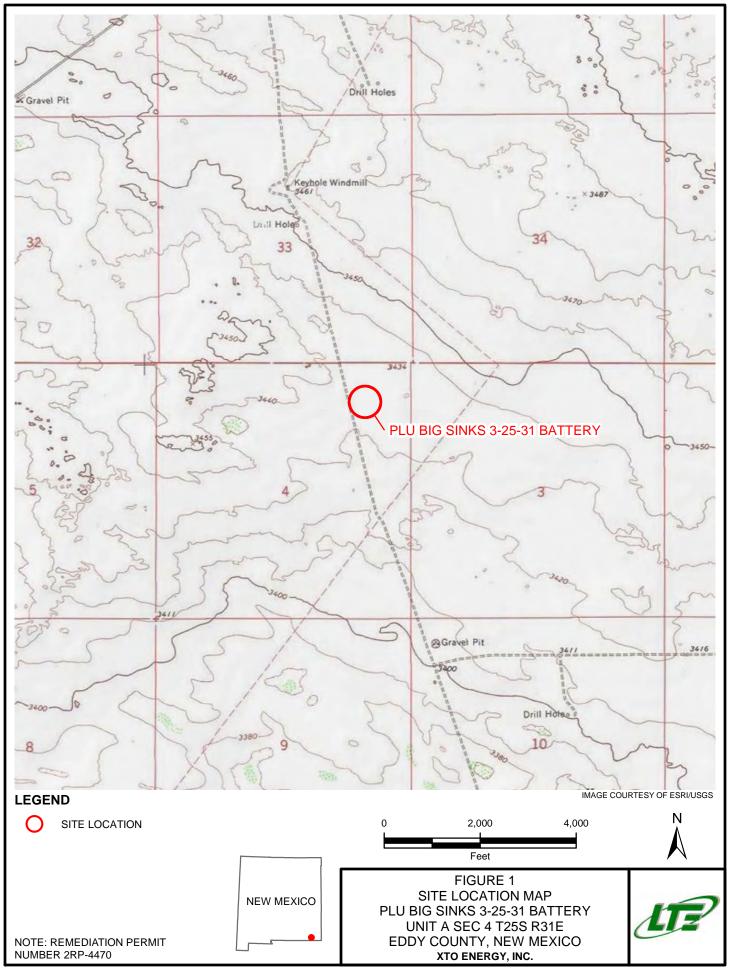
Figure 1 Site Location Map
Figure 2 Soil Sample Locations
Table 1 Soil Analytical Results

Attachment 1 Initial/Final NMOCD Form C-141 (2RP-4470)

Attachment 2 Photographic Log

Attachment 3 Laboratory Analytical Reports





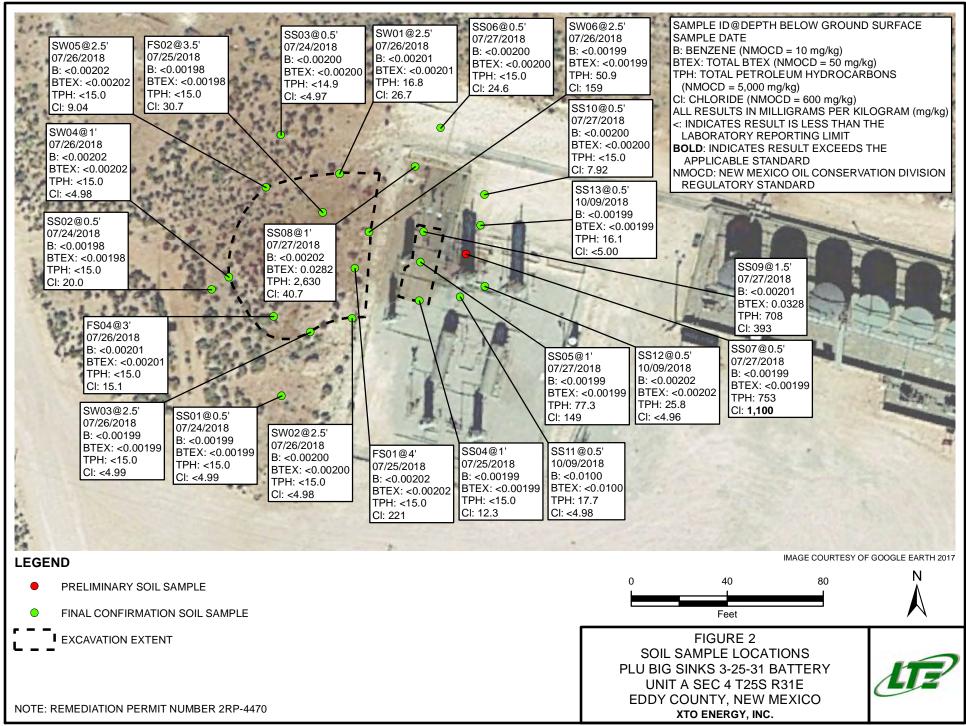


TABLE 1 SOIL ANALYTICAL RESULTS

PLU BIG SINKS 3-25-31 BATTERY REMEDIATION PERMIT NUMBER 2RP-4470 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 GRO (mg/kg)	C10-C28 DRO (mg/kg)	C28-C40 ORO (mg/kg)	GRO and DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS01	0.5	07/24/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<4.99
SS02	0.5	07/24/2018	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	20.0
SS03	0.5	07/24/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	<4.97
FS01	4	07/25/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	221
FS02	3.5	07/25/2018	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	30.7
SS04	1	07/25/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	12.3
FS04	3	07/26/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	15.1
SW01	2.5	07/26/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	16.8	<15.0	16.8	16.8	26.7
SW02	2.5	07/26/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<4.98
SW03	2.5	07/26/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<4.99
SW04	1	07/26/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	<4.98
SW05	2.5	07/26/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	9.04
SW06	2.5	07/26/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<14.9	50.9	<14.9	50.9	50.9	159
SS05	1	07/27/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<14.9	77.3	<14.9	77.3	77.3	149
SS06	0.5	07/27/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	24.6
SS07	0.5	07/27/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	753	<15.0	753	753	1,100
SS08	1	07/27/2018	<0.00202	<0.00202	0.00398	0.0242	0.0282	73.8	2,510	43.8	2,580	2,630	40.7
SS09	1.5	07/27/2018	<0.00201	<0.00201	0.00644	0.0264	0.0328	82.4	605	20.4	687	708	393
SS10	0.5	07/27/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	7.92
SS11	0.5	10/09/2018	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	17.7	<15.0	<15.0	17.7	17.7	<4.98
SS12	0.5	10/09/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	25.8	<15.0	<15.0	25.8	25.8	<4.96
SS13	0.5	10/09/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<14.9	<14.9	<14.9	<14.9	16.1	<5.00
MOCD Remediation A	Action Levels		10	NE	NE	NE	50	NE	NE	NE	NE	5,000	600

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

mg/kg - milligrams per kilogram

NE - not established

NMOCD - New Mexico Oil Conservation Division

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

TPH - total petroleum hydrocarbons

< - indicates result is below laboratory reporting limits

Bold - indicates result exceeds the applicable regulatory standard.



Site ID 8 10/18/2018



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 Fc, NM 87505

State of New Mexico
Energy Minerals and Natural Resources NOV 0 3 2017

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in RECEIVED accordance with 19.15.29 NMAC.

Release Notification and Corrective Action									
_	OPERATOR								
Name of Company: XTO Energy BORCO # 260737	Contact: Kyle Littrell								
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 432-221-7331								
Facility Name: PLU Big Sinks 3-25-31 Battery (API for PLU	Facility Type: Exploration and Pro	oduction							
CVX JV BS #027H)									
Surface Owner: Federal Mineral Owner	Federal	API No. 30-015-42111							
\$ and the second	ON OF RELEASE								
Unit Letter Section Township Range Feet from the Nort A 25S 31E 775 Nort	h/South Line Feet from the East/V	West Line County Eddy							
laution of Latitude_32.164680°_ battery place of religionations	Longitude103.77774° E OF RELEASE								
Type of Release Crude Oil and Produced Water	Volume of Release 51 BO 6 BPW	Volume Recovered 36 BO 4 BPW							
Source of Release Heater Treater	Date and Hour of Occurrence 10/28/2017 time unknown	Date and Hour of Discovery 10/28/2017 9 am							
Was Immediate Notice Given?	If YES, To Whom?								
✓ Yes ☐ No ☐ Not Required	Mike Bratcher and Crystal Weaver (BLM)	(NMOCD), Jim Amos and Shelly Tucker							
By Whom? Amy Ruth	Date and Hour 10/29/2017 6:01								
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.								
☐ Yes ☒ No	N/A Please refer to the New Mexico Oil								
If a Watercourse was Impacted, Describe Fully.*	Conservat	er to the New Mexico Oil ion Division Website for Orm(s) at:							
N/A									
Describe Cause of Problem and Remedial Action Taken.*	http://ww								
The heater treater fire tube gasket failed. The vessel was isolated until t	ne gasket can be replaced. OCD/form:	s bt!							
The near the table gaster faired. The vester was invitated district	Buonet date of replacement of the second	Thank you							
		-iii yoq							
Describe Area Affected and Cleanup Action Taken.* The leak affected approximately 2,300 square feet of caliche pad. The leak	and also impacted 2 200 square feet of r	asture and misted TK square feet of nasture							
west of the facility. Free standing fluids were recovered.	cak also impacted 2,300 square rect of p	rasture and misted 712 square feet of pasture							
The state of the s									
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release									
public health or the environment. The acceptance of a C-141 report by t									
should their operations have failed to adequately investigate and remedi-	ate contamination that pose a threat to g	round water, surface water, human health							
or the environment. In addition, NMOCD acceptance of a C-141 report	does not relieve the operator of respons	sibility for compliance with any other							
federal, state, or local laws and/or regulations.		A STONE DATE OF THE STONE OF TH							
	OIL CONSERV	ATION DIVISION							
Signature: Julius		Carl (/a &							
	Approved by Environmental Specialist:								
Printed Name: Kyle Littrell									
Title: Environmental Coordinator	Approval Date:) D 7	Expiration Date: NA							
E-mail Address: Kyle_Littrell@xtoenergy.com	Conditions of Approval:	Attached 18							
Date: 11/3/2017 Phone: 432-221-7331	ISL attachic	1 200 UUTA							
Date: 11/3/2017 Phone: 432-221-7331 * Attach Additional Sheets If Necessary									

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **11/3/17** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number <u>2824470</u> has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 12/3/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Weaver, Crystal, EMNRD

From: Ruth, Amy <Amy_Ruth@xtoenergy.com>
Sent: Friday, November 3, 2017 2:45 PM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Shelly Tucker; Jim Amos

Cc:McSpadden, Wes; Sanders, Toady; Littrell, Kyle; Foust, BryanSubject:RE: Release Notification- PLU BS 3-25-31 CTB on 10/28/17

Attachments: Initial C-141 - PLU BS 3-25-31 CTB 10-28-17.pdf

Good Afternoon,

Please find attached the initial form C-141 regarding the referenced accidental release event. If you have any questions or concerns, feel free to call at any time. Thank you and have a good evening...

Respectfully,

Amy C. Ruth

Delaware Basin Division
Environmental Coordinator
3104 E. Greene Street | Carlsbad, NM 88220 | M: 432.661.0571 | O: 575.887.7329



This document may contain information that is privileged, confidential and exempt from disclosure under applicable law. If you are not the intended recipient, you are notified that any unauthorized disclosure, copying, distribution or action on/of the contents of this document is prohibited.

From: Ruth, Amy

Sent: Sunday, October 29, 2017 6:01 PM

To: Mike Bratcher; Crystal EMNRD Weaver; Shelly Tucker; Jim Amos

Cc: McSpadden, Wes; Sanders, Toady; Littrell, Kyle; Foust, Bryan; Fuqua, Danny

Subject: Release Notification- PLU BS 3-25-31 CTB on 10/28/17

All.

This is sent as notification of an accidental release of fluids from PLU Big Sinks <u>3-25-31</u> CTB that occurred yesterday. Details will be sent with the submission of an initial C-141 form. Please call me with questions or concerns. Thank you.

Respectfully,

Amy Ruth 432-661-0571

Bratcher, Mike, EMNRD

From: Ruth, Amy <Amy_Ruth@xtoenergy.com>
Sent: Sunday, October 29, 2017 6:01 PM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Shelly Tucker; Jim Amos

Cc: McSpadden, Wes; Sanders, Toady; Littrell, Kyle; Foust, Bryan; Fuqua, Danny

Subject: Release Notification- PLU BS 3-25-31 CTB on 10/28/17

All,

This is sent as notification of an accidental release of fluids from PLU Big Sinks <u>3-25-31</u> CTB that occurred yesterday. Details will be sent with the submission of an initial C-141 form. Please call me with questions or concerns. Thank you.

Respectfully,

Amy Ruth 432-661-0571

Sent from my iPhone

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	2RP-4470
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc					OGRID: 5380			
ame: Kyle L	ittrell			Contact Telephone: 432-221-7331				
nail: Kyle_L	ittrell@xtoenergy	.com		Incident # 2RP-4470				
ailing addres								
		Locati	on of R	Release So	ource			
2.164680°		(NAD 83 i	in decimal de	Longitude <u>-</u> grees to 5 decin	-103.77774° nal places)			
Site Name: PLU Big Sinks 3-25-31 Battery (API for Poker Lake Unit CVX JV BS #027H)					Exploration a	and Production		
se Discovere	ed: 10/28/2017			API#: 30-0	15-42111			
Section	Township	Range		County	,	7		
4	25S	31E Eddy				7		
	rial(s) Released (Selec	Nature a	and Vo	lume of 1	justification for	the volumes provided below)		
ed Water	Volume Relea	ased (bbls): 6 bbl	ls		Volume Recovered (bbls): 4 bbl			
	produced water	er >10,000 mg/1?		e in the	in the Yes No			
ısate	Volume Relea	ased (bbls)			Volume Recovered (bbls)			
Gas	Volume Relea	ased (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide unit)	Volume/We	eight Recovered (provide units)		
elease: treater fire g	gasket failed.							
	ame: Kyle L nail: Kyle_L nail:	ame: Kyle Littrell nail: Kyle_Littrell@xtoenergy ailing address: 522 W. Mermo Carlsbad, NM 2.164680° PLU Big Sinks 3-25-31 Batte JV BS #027H) se Discovered: 10/28/2017 Section Township 4 25S ner: State Federal Material(s) Released (Select Dil Volume Releat ed Water Volume Releat Is the concent produced wate usate Volume Releat Gas Volume Releat describe) Volume/Weig	ame: Kyle Littrell@xtoenergy.com ailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220 Locati 2.164680° (NAD 83 and PLU Big Sinks 3-25-31 Battery (API for Poke Div BS #027H) se Discovered: 10/28/2017 Section Township Range 4 25S 31E Nature and Material(s) Released (Select all that apply and a Dil Volume Released (bbls) 51 bble and Water Volume Released (bbls): 6 bble Discovered: 10/2000 mg/fs. Is the concentration of dissolve produced water >10,000 mg/fs. Is the concentration of dissolve produced water >10,000 mg/fs. Is the Concentration of dissolve produced water >10,000 mg/fs. Is the Concentration of dissolve produced water >10,000 mg/fs. Is the Concentration of dissolve produced water >10,000 mg/fs. Is the Concentration of dissolve produced water >10,000 mg/fs. Is the Concentration of dissolve produced water >10,000 mg/fs. Is the Concentration of dissolve produced water >10,000 mg/fs. Is the Concentration of dissolve produced water >10,000 mg/fs. Is the Concentration of dissolve produced water >10,000 mg/fs. Is the Concentration of dissolve produced water >10,000 mg/fs. Is the Concentration of dissolve produced water >10,000 mg/fs. Is the Concentration of dissolve produced water >10,000 mg/fs. Is the Concentration of dissolve produced water >10,000 mg/fs.	ame: Kyle Littrell nail: Kyle_Littrell @xtoenergy.com ailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220 Location of R 2.164680° (NAD 83 in decimal de PLU Big Sinks 3-25-31 Battery (API for Poker Lake BV BS #027H) se Discovered: 10/28/2017 Section Township Range 4 25S 31E Eddy ner: State Federal Tribal Private (Name: Nature and Vol Material(s) Released (Select all that apply and attach calculated Dil Volume Released (bbls) 51 bbls ed Water Volume Released (bbls): 6 bbls Is the concentration of dissolved chlorided produced water >10,000 mg/1? usate Volume Released (bbls) Gas Volume Released (Mcf) describe) Volume/Weight Released (provide units) elease:	Ame: Kyle Littrell	ame: Kyle Littrell@xtoenergy.com		

Reverved by OCD: 9/1/2025 3:46:41	PMState of New Mexico
Page 2	Oil Conservation Division

Incident ID	Page 86 of 28
District RP	2RP-4470
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? Release > 25 barrels
	Lotice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Amy Ruth to Mike Bratcher, Crystal Weaver, Shelly Tucker, and Jim Amos on October 29, 2017 at 6:01 pm
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rel	ease has been stopped.
The impacted area ha	as been secured to protect human health and the environment.
Released materials h	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and r	ecoverable materials have been removed and managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain why:
Y 2	
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred
	nt area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environ failed to adequately investig	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 ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Kyle I	
Signature:	Date: 10/23/2018
email: kyle:littrell@xte	Denergy.com Telephone: 432-221-7331
OCD Only	
	Date:

Received by OCD: 9/1/2025 3:46:41 PMState of New Mexico
Page 6 Oil Conservation Division

Incident ID	Page 87 of 28
District RP	2RP-4470
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in	19.15.29.11 NMAC
Photographs of the remediated site prior to backfil must be notified 2 days prior to liner inspection)	Il or photos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appro	opriate ODC District office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
and regulations all operators are required to report and/o may endanger public health or the environment. The acceptance with any other federal, state, or local laws are restore, reclaim, and re-vegetate the impacted surface are accordance with 19.15.29.13 NMAC including notificate. Printed Name: Kyle Littrell Signature: Kyle Littrell Signature: Kyle Littrell@xtoenergy.com	and complete to the best of my knowledge and understand that pursuant to OCD rules or file certain release notifications and perform corrective actions for releases which ceptance of a C-141 report by the OCD does not relieve the operator of liability gate and remediate contamination that pose a threat to groundwater, surface water, septance of a C-141 report does not relieve the operator of responsibility for and/or regulations. The responsible party acknowledges they must substantially ea to the conditions that existed prior to the release or their final land use in ion to the OCD when reclamation and re-vegetation are complete. Title: SH&E Coordinator Date: 10/23/2018 Telephone: 432-221-7331
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the response remediate contamination that poses a threat to groundward party of compliance with any other federal, state, or local	nsible party of liability should their operations have failed to adequately investigate and ter, surface water, human health, or the environment nor does not relieve the responsible al laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



PHOTOGRAPHIC LOG



Photograph 1: View southwest of pasture excavation.



Photograph 2: View south of equipment and well pad excavation.

PLU Big Sinks 3-25-31 Battery

2RP-4470

Photographs Taken: July 26, 2018







Analytical Report 577917

for LT Environmental, Inc.

Project Manager: Adrian Baker PLU Big Sinles 3-25-31/2RP-4470

08-MAR-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

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

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-16), 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 (T104704400-18-14)
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)
Xenco-Atlanta (LELAP Lab ID #04176)





08-MAR-18

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

Reference: XENCO Report No(s): 577917

PLU Big Sinles 3-25-31/2RP-4470

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) 577917. 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. 577917 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 Vramer

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 577917



LT Environmental, Inc., Arvada, CO

PLU Big Sinles 3-25-31/ 2RP-4470

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS1	S	02-28-18 09:10	12 In	577917-001
SS2	S	02-28-18 09:20	12 In	577917-002
SS3	S	02-28-18 09:30	12 In	577917-003
SS4	S	02-28-18 09:40	12 In	577917-004
SS5	S	02-28-18 09:50	12 In	577917-005

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: PLU Big Sinles 3-25-31/2RP-4470

Project ID: Report Date: 08-MAR-18 Work Order Number(s): 577917 Date Received: 03/01/2018

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3042980 BTEX by EPA 8021B

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

Batch: LBA-3043008 BTEX by EPA 8021B

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

Batch: LBA-3043154 Inorganic Anions by EPA 300

Lab Sample ID 577917-003 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: 577917-001, -002, -003, -004, -005. The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



Adrian Baker

NM

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 577917

LT Environmental, Inc., Arvada, CO

Project Name: PLU Big Sinles 3-25-31/2RP-4470

Date Received in Lab: Thu Mar-01-18 01:10 pm

Report Date: 08-MAR-18

Project Manager: Jessica Kramer

	1						1					
	Lab Id:	Lab Id: 577917-001		577917-002		577917-003		577917-004		577917-005		
Analysis Requested	Field Id:	SS1		SS2		SS3		SS4		SS5		
Analysis Requesieu	Depth:	12- In		12- In		12- In		12- In		12- In		
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		
	Sampled:	Feb-28-18 (09:10	Feb-28-18 (9:20	Feb-28-18 (09:30	Feb-28-18	09:40	Feb-28-18 (9:50	
BTEX by EPA 8021B	Extracted:	Mar-06-18 (08:30	Mar-06-18 (08:30	Mar-06-18 (08:30	Mar-06-18	17:00	Mar-06-18 (08:30	
	Analyzed:	Mar-07-18	14:37	Mar-07-18 1	4:37	Mar-07-18	14:37	Mar-07-18	13:41	Mar-07-18 1	4:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	
Toluene		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	
Ethylbenzene		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	
m,p-Xylenes		< 0.00402	0.00402	< 0.00403	0.00403	< 0.00398	0.00398	< 0.00398	0.00398	< 0.00401	0.00401	
o-Xylene		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	
Total Xylenes		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	
Total BTEX		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	
Inorganic Anions by EPA 300	Extracted:	Mar-07-18	18:30	Mar-07-18	8:30	Mar-07-18	18:30	Mar-07-18	18:30	Mar-07-18 1	8:30	
	Analyzed:	Mar-08-18	12:18	Mar-08-18 12:39		Mar-08-18 13:32		Mar-08-18 12:44		Mar-08-18 12:50		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		12.6	5.00	893	24.7	1230	5.00	27700	245	809	4.99	
TPH by SW8015 Mod	Extracted:	Mar-07-18	10:00	Mar-07-18 10:00		Mar-07-18 10:00		Mar-07-18 10:00		Mar-07-18 10:00		
	Analyzed:	Mar-07-18	16:56	Mar-07-18	7:22	Mar-07-18 17:47		Mar-07-18 18:13		Mar-07-18 18:38		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	
Diesel Range Organics (DRO)		<15.0	15.0	65.0	14.9	<15.0	15.0	241	15.0	<15.0	15.0	
Oil Range Hydrocarbons (ORO)		<15.0	15.0	20.0	14.9	<15.0	15.0	107	15.0	<15.0	15.0	
Total TPH		<15.0	15.0	85.0	14.9	<15.0	15.0	348	15.0	<15.0	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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer

Jessica Kramer Project Assistant





LT Environmental, Inc., Arvada, CO

PLU Big Sinles 3-25-31/ 2RP-4470

Sample Id: SS1

Matrix: Soil

Date Received:03.01.18 13.10

Lab Sample Id: 577917-001

Date Collected: 02.28.18 09.10

Sample Depth: 12 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

Analyst:

OJS OJS

Date Prep: 03.07.18 18.30

% Moisture:

Basis:

Wet Weight

Seq Number: 3043154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.6	5.00	mg/kg	03.08.18.12.18		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 03.07.18 10.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.07.18 16.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.07.18 16.56	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	03.07.18 16.56	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	03.07.18 16.56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	102	%	70-135	03.07.18 16.56		
o-Terphenyl		84-15-1	102	%	70-135	03.07.18 16.56		





LT Environmental, Inc., Arvada, CO

PLU Big Sinles 3-25-31/ 2RP-4470

Sample Id: SS1

Matrix:

Date Prep:

Soil

Date Received:03.01.18 13.10

Lab Sample Id: 577917-001

Date Collected: 02.28.18 09.10

Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

Analyst: ALJ

03.06.18 08.30

Wet Weight Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.07.18 14.37	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.07.18 14.37	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.07.18 14.37	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	03.07.18 14.37	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	03.07.18 14.37	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	03.07.18 14.37	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	03.07.18 14.37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	79	%	70-130	03.07.18 14.37		
4-Bromofluorobenzene		460-00-4	110	%	70-130	03.07.18 14.37		





LT Environmental, Inc., Arvada, CO

PLU Big Sinles 3-25-31/ 2RP-4470

Sample Id: SS2

Matrix: Soil

Date Received:03.01.18 13.10

Lab Sample Id: 577917-002

Date Collected: 02.28.18 09.20

Sample Depth:12 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

Analyst:

OJS OJS

Date Prep: 03.07.18 18.30

% Moisture:

Basis:

Wet Weight

Seq Number: 3043154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	893	24.7	mg/kg	03.08.18 12.39		5

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 03.07.18 10.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	03.07.18 17.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	65.0	14.9		mg/kg	03.07.18 17.22		1
Oil Range Hydrocarbons (ORO)	PHCG2835	20.0	14.9		mg/kg	03.07.18 17.22		1
Total TPH	PHC635	85.0	14.9		mg/kg	03.07.18 17.22		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	103	%	70-135	03.07.18 17.22		
o-Terphenyl		84-15-1	106	%	70-135	03.07.18 17.22		





LT Environmental, Inc., Arvada, CO

PLU Big Sinles 3-25-31/ 2RP-4470

Sample Id: SS2

Matrix:

Soil

Date Received:03.01.18 13.10

Lab Sample Id: 577917-002

Date Collected: 02.28.18 09.20

Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

Analyst:

ALJ ALJ

Date Prep:

03.06.18 08.30

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	03.07.18 14.37	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	03.07.18 14.37	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	03.07.18 14.37	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	03.07.18 14.37	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	03.07.18 14.37	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	03.07.18 14.37	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	03.07.18 14.37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	72	%	70-130	03.07.18 14.37		
4-Bromofluorobenzene		460-00-4	111	%	70-130	03.07.18 14.37		





LT Environmental, Inc., Arvada, CO

PLU Big Sinles 3-25-31/ 2RP-4470

Sample Id: SS3

Matrix: Soil

Date Received:03.01.18 13.10

Lab Sample Id: 577917-003

Date Collected: 02.28.18 09.30

Sample Depth:12 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

OJS

% Moisture:

Analyst:

OJS

Date Prep: 03.07.18 18.30

Basis:

Wet Weight

Seq Number: 3043154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1230	5.00	mg/kg	03.08.18 13.32		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech:
Analyst:

ARM ARM

Date Prep: 03.07.18 10.00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.07.18 17.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.07.18 17.47	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	03.07.18 17.47	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	03.07.18 17.47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	107	%	70-135	03.07.18 17.47		
o-Terphenyl		84-15-1	110	%	70-135	03.07.18 17.47		





LT Environmental, Inc., Arvada, CO

PLU Big Sinles 3-25-31/ 2RP-4470

Sample Id: SS3

Matrix:

Soil

Date Received:03.01.18 13.10

Lab Sample Id: 577917-003

Date Collected: 02.28.18 09.30

Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

0 001100110011001100

Prep Method: SW5030B

Tech:

Analyst:

ALJ ALJ

Date Prep:

% Moisture: 03.06.18 08.30 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.07.18 14.37	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.07.18 14.37	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.07.18 14.37	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.07.18 14.37	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.07.18 14.37	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.07.18 14.37	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.07.18 14.37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	71	%	70-130	03.07.18 14.37		
4-Bromofluorobenzene		460-00-4	121	%	70-130	03.07.18 14.37		





LT Environmental, Inc., Arvada, CO

PLU Big Sinles 3-25-31/2RP-4470

Sample Id: SS4 Matrix:

Result

27700

Soil

Lab Sample Id: 577917-004

Date Collected: 02.28.18 09.40

Date Received:03.01.18 13.10

Sample Depth: 12 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

OJS

% Moisture:

Wet Weight

Analyst:

Parameter

Chloride

OJS Seq Number: 3043154 Date Prep: 03.07.18 18.30

245

RL

Basis:

Units

mg/kg

Dil

50

Flag

Analytical Method: TPH by SW8015 Mod

Cas Number

16887-00-6

Prep Method: TX1005P

Analysis Date

03.08.18 12.44

% Moisture:

Tech: Analyst: ARM **ARM**

03.07.18 10.00 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	03.07.18 18.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	241	15.0		mg/kg	03.07.18 18.13		1
Oil Range Hydrocarbons (ORO)	PHCG2835	107	15.0		mg/kg	03.07.18 18.13		1
Total TPH	PHC635	348	15.0		mg/kg	03.07.18 18.13		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	104	%	70-135	03.07.18 18.13		
o-Terphenyl		84-15-1	108	%	70-135	03.07.18 18.13		





LT Environmental, Inc., Arvada, CO

PLU Big Sinles 3-25-31/ 2RP-4470

Sample Id: SS4

Lab Sample Id: 577917-004

Analytical Method: BTEX by EPA 8021B

ALJ

Matrix:

Soil

Date Received:03.01.18 13.10

Date Collected: 02.28.18 09.40

Sample Depth: 12 In

Prep Method: SW5030B

% Moisture:

Tech:

Analyst:

ALJ

Date Prep:

03.06.18 17.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.07.18 13.41	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.07.18 13.41	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.07.18 13.41	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.07.18 13.41	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.07.18 13.41	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.07.18 13.41	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.07.18 13.41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	116	%	70-130	03.07.18 13.41		
1,4-Difluorobenzene		540-36-3	82	%	70-130	03.07.18 13.41		





LT Environmental, Inc., Arvada, CO

PLU Big Sinles 3-25-31/2RP-4470

Sample Id: SS5

Lab Sample Id: 577917-005

Matrix: Soil Date Received:03.01.18 13.10

Date Collected: 02.28.18 09.50

Sample Depth: 12 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P % Moisture:

Tech: OJS

Analyst:

OJS

Date Prep: 03.07.18 18.30 Basis:

Wet Weight

Seq Number: 3043154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	809	4.99	mg/kg	03.08.18 12.50		1

Analytical Method: TPH by SW8015 Mod

ARM Tech:

ARM Analyst: Seq Number: 3043121 Date Prep:

03.07.18 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.07.18 18.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.07.18 18.38	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	03.07.18 18.38	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	03.07.18 18.38	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-135	03.07.18 18.38		
o-Terphenyl		84-15-1	99	%	70-135	03.07.18 18.38		





LT Environmental, Inc., Arvada, CO

PLU Big Sinles 3-25-31/ 2RP-4470

Sample Id: SS5

Matrix: Soil

Date Prep:

Date Received:03.01.18 13.10

Lab Sample Id: 577917-005

Date Collected: 02.28.18 09.50

Sample Depth: 12 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

Analyst:

ALJ

% Moisture: 03.06.18 08.30 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.07.18 14.37	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.07.18 14.37	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.07.18 14.37	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	03.07.18 14.37	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.07.18 14.37	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.07.18 14.37	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.07.18 14.37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	111	%	70-130	03.07.18 14.37		
1,4-Difluorobenzene		540-36-3	77	%	70-130	03.07.18 14.37		



Flagging Criteria



Page 106 of 280

- 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.

Flag

Flag



OC Summary 577917

LT Environmental, Inc.

PLU Big Sinles 3-25-31/2RP-4470

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3043154

MB Sample Id:

LCS Sample Id: 7640435-1-BKS 7640435-1-BLK

Prep Method: E300P

Date Prep: 03.07.18 LCSD Sample Id: 7640435-1-BSD

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

%Rec

Result

Chloride 20 03.08.18 12:07 < 5.00 250 247 99 242 97 90-110 2 mg/kg

Matrix: Solid

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3043154

Parameter

Parent Sample Id: 577917-001

Matrix: Soil

MS Sample Id: 577917-001 S

Prep Method: E300P

Date Prep: 03.07.18 MSD Sample Id: 577917-001 SD

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

Parameter Result Amount Result %Rec %Rec D Limit Date Result Chloride 12.6 250 285 109 286 109 90-110 0 20 03.08.18 12:23 mg/kg

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3043154

Matrix: Soil

Prep Method: E300P

Date Prep:

03.07.18

Parent Sample Id: 577917-003 MS Sample Id: 577917-003 S MSD Sample Id: 577917-003 SD

RPD MS %RP **Parent** Spike MS **MSD MSD** Limits Units Analysis Flag **Parameter** Result %Rec D Limit Date Result Amount Result %Rec 03.08.18 13:38 Chloride 1230 250 1420 76 1430 80 90-110 1 20 X mg/kg

TPH by SW8015 Mod **Analytical Method:**

Seq Number: 3043121

7640357-1-BLK MB Sample Id:

Matrix: Solid

LCS Sample Id: 7640357-1-BKS

Prep Method:

TX1005P

Date Prep: 03.07.18 LCSD Sample Id: 7640357-1-BSD

RPD LCS LCS LCSD %RP Units MB Spike Limits **Analysis** LCSD Flag **Parameter** Result D Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 03.07.18 14:33 1000 1040 104 1010 70-135 3 35 mg/kg <15.0 101 03.07.18 14:33 1030 103 70-135 Diesel Range Organics (DRO) 1000 1090 109 6 35 <15.0 mg/kg

MB LCS LCSD Units **Analysis** MB LCS LCSD Limits **Surrogate** %Rec Flag Flag %Rec Flag %Rec Date 03.07.18 14:33 1-Chlorooctane 104 115 114 70-135 % 03.07.18 14:33 o-Terphenyl 107 113 109 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

Flag

Flag



OC Summary 577917

LT Environmental, Inc.

PLU Big Sinles 3-25-31/2RP-4470

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P Seq Number: 3043121 Matrix: Soil Date Prep: 03.07.18

MS Sample Id: 577916-005 S MSD Sample Id: 577916-005 SD Parent Sample Id: 577916-005

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	I
Gasoline Range Hydrocarbons (GRO)	<15.0	999	1050	105	1050	105	70-135	0	35	mg/kg	03.07.18 15:52	
Diesel Range Organics (DRO)	103	999	1160	106	1170	107	70-135	1	35	mg/kg	03.07.18 15:52	

MS MS MSD MSD Limits Units **Analysis Surrogate** %Rec Flag Flag Date %Rec 03.07.18 15:52 1-Chlorooctane 118 120 70-135 % o-Terphenyl 112 113 70-135 03.07.18 15:52

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

Seq Number: 3042980 Matrix: Solid Date Prep: 03.06.18 LCS Sample Id: 7640283-1-BKS LCSD Sample Id: 7640283-1-BSD MB Sample Id: 7640283-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.0998	0.100	100	0.100	100	70-130	0	35	mg/kg	03.07.18 14:37
Toluene	< 0.00200	0.0998	0.0933	93	0.0938	94	70-130	1	35	mg/kg	03.07.18 14:37
Ethylbenzene	< 0.00200	0.0998	0.0970	97	0.0975	98	70-130	1	35	mg/kg	03.07.18 14:37
m,p-Xylenes	< 0.00399	0.200	0.190	95	0.191	96	70-130	1	35	mg/kg	03.07.18 14:37
o-Xylene	< 0.00200	0.0998	0.0957	96	0.0964	96	70-130	1	35	mg/kg	03.07.18 14:37

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag			Date
1,4-Difluorobenzene	83		71		72		70-130	%	03.07.18 14:37
4-Bromofluorobenzene	109		125		125		70-130	%	03.07.18 14:37

LCS

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

LCS

Seq Number: 3043008 Matrix: Solid Date Prep: 03.06.18 LCS Sample Id: 7640330-1-BKS LCSD Sample Id: 7640330-1-BSD MB Sample Id: 7640330-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date
Benzene	< 0.00201	0.100	0.0741	74	0.0718	71	70-130	3	35	mg/kg	03.07.18 07:32
Toluene	< 0.00201	0.100	0.0793	79	0.0780	77	70-130	2	35	mg/kg	03.07.18 07:32
Ethylbenzene	< 0.00201	0.100	0.0901	90	0.0880	87	70-130	2	35	mg/kg	03.07.18 07:32
m,p-Xylenes	< 0.00402	0.201	0.178	89	0.175	87	70-130	2	35	mg/kg	03.07.18 07:32
o-Xylene	< 0.00201	0.100	0.0907	91	0.0893	88	70-130	2	35	mg/kg	03.07.18 07:32

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	82		84		82		70-130	%	03.07.18 07:32
4-Bromofluorobenzene	96		108		109		70-130	%	03.07.18 07:32

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

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

MB

MB

LCS = Laboratory Control Sample A = Parent Result

LCSD

LCSD

Limits

Units

Analysis

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

Flag



OC Summary 577917

LT Environmental, Inc.

PLU Big Sinles 3-25-31/2RP-4470

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B Seq Number: 3042980 Matrix: Soil Date Prep: 03.06.18 MS Sample Id: 577918-001 S MSD Sample Id: 577918-001 SD Parent Sample Id: 577918-001

MS RPD Parent Spike MS Limits %RP Units Analysis **MSD MSD** Flag **Parameter** Result Amount Result %Rec D Limit Date Result %Rec 03.07.18 14:37 Benzene < 0.00202 0.101 0.0592 59 0.0551 55 70-130 7 35 mg/kg

X 0.0540 53 70-130 35 03.07.18 14:37 Toluene < 0.00202 0.101 0.0428 43 23 X mg/kg 03 07 18 14:37 Ethylbenzene 0.0499 49 70-130 35 X < 0.00202 0.101 0.0410 41 20 mg/kg 03.07.18 14:37 m,p-Xylenes < 0.00403 0.202 0.0960 48 0.0685 34 70-130 33 35 X mg/kg < 0.00202 0.101 0.0491 0.0425 35 03.07.18 14:37 o-Xylene 49 43 70-130 mg/kg

MS MS **MSD MSD** Limits Units Analysis **Surrogate** %Rec Flag Flag Date %Rec 71 91 70-130 03.07.18 14:37 1,4-Difluorobenzene % 91 03.07.18 14:37 4-Bromofluorobenzene 121 70-130 %

Analytical Method: BTEX by EPA 8021B

Seq Number: 3043008 Matrix: Soil Date Prep: 03.06.18 MS Sample Id: 578048-016 S MSD Sample Id: 578048-016 SD Parent Sample Id: 578048-016

MS MS %RP RPD **Parent** Spike MSD Limits Units Analysis **MSD Parameter** Result Amount Result %Rec \mathbf{D} Limit Date Result %Rec 03.07.18 08:10 0.0744 < 0.00201 0.0734 70-130 35 Benzene 0.10073 74 1 mg/kg 03.07.18 08:10 Toluene < 0.00201 0.100 0.0776 78 0.0795 79 70-130 2 35 mg/kg 03.07.18 08:10 Ethylbenzene < 0.00201 0.100 0.0891 89 0.0908 90 70-130 2 35 mg/kg 03.07.18 08:10 0.201 88 90 70-130 2 35 m,p-Xylenes < 0.00402 0.177 0.181 mg/kg 03.07.18 08:10 o-Xylene < 0.00201 0.100 0.0882 88 0.0899 89 70-130 2 35 mg/kg

MS MS **MSD** Limits Units Analysis MSD **Surrogate** %Rec Flag %Rec Flag Date 03.07.18 08:10 1,4-Difluorobenzene 88 86 70-130 % 03.07.18 08:10 4-Bromofluorobenzene 115 123 70-130 %

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

Prep Method: SW5030B

Received by OCD: 9/1/2025 3:46:41 PM

CHAIN OF CUSTODY

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Service Center- Amarillo, TX (806)678-4514

Revision 2016.1

					www	xenco	.com							Quote			332) 712-	Xenco J	lob#	under .	Service Center- Hobbs, NM (575) 392-
																			-7.0	57	17917
Client / Reporting Information			p.	ninet!	formati				,						Anal	ytical In	nformatio	on			Matrix Codes
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email: Phone I	No:	Invoice																			DW = Drinking Water P = Product
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Turnaround Time (Business days)																		-	-	-	
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Same Day TAT 5 Day TAT							ŕ									N	lotes:				
Next Day EMERGENCY 7 Day TAT			Leve	I II Std	QC		L	L	evel IV	/ (Full	Data P	kg /raw	/ data)							
Next Day EMERGENCY 7 Day TAT			Leve	III Std	QC+ Fo	orms	Г	T	DDDI	evel IV						-			11		IR ID:R-8
2 Day EMERGENCY Contract T/	AT.								INIT L	everiv							Ten	1p: 2	5.4		
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3 Day EMERGENCY X Standa	12		Leve	I II Ren	ort wit	h TPP	Date	biller						_		_	Cr.	10-0.	00	2°C)	
					- WIL	IKK	cnec	KIIST										(6-2	3. +0.	201	2 7
AT Starts Day received by Lab, if received by	5:00 pm																Co	rrect	ed Te	mp:	3.2
SAMPLE CUST	ODY MUST BE DO	CUMENTE	D BELOW EAC	CH TIME	SAMPL	ES CH	ANGE P	OSSES	SION	MCLUE	INO CO					FED-					
M	Date Time:	00-	Received By	Y				Rel	linguis	hed By	iNG CC	URIER	DELIV	VERY	Tierr						
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	Date Time:		Received By	1:		1		Cue	stody S	th loos	_						4				
Signature of this document and relinquishment of samples constitutions or expenses incurred by the Client if such losses are due to . These terms will be enforced unless previously negotiated under								Gus	stouy S	# IBDC			Pres	served	where	ammili-	blo		On Ice		er Temp. Thermo. Corr. Factor

Alshment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility previously negotiated under a fully executed client contract.

A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per tor any coses or expenses interried by the Cherit in such roses are due to uncumistances beyond the con-sample. These terms will be enforced unless previously negotiated under a fully executed client contract.



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 03/01/2018 01:10:00 PM

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

Work Order #: 577917

Temperature Measuring device used: R8

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		3.2	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping conta	iner/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?)	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 relinquis	hed/ received?	Yes	
#10 Chain of Custody agrees with sample I	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		No	TPH received in bulk jars
#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	livery of samples prior to plac	ing in the refrigerator
Analyst:		PH Device/Lot#:	
	Checklist completed by:	Connie Hernandez	Date: <u>03/01/2018</u>
	Checklist reviewed by:	Jessica Warner	Date: <u>03/01/2018</u>

Analytical Report 593924

for

LT Environmental, Inc.

Project Manager: Adrian Baker
PLU Big Sinks 3-25-31TB

03-AUG-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), 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 (T104704400-18-15)
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)
Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





03-AUG-18

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

Reference: XENCO Report No(s): 593924

PLU Big Sinks 3-25-31TB Project Address: Carlsbad, 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) 593924. 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. 593924 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

Jessian beamer

Project Assistant

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



Sample Cross Reference 593924



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	07-24-18 11:30	6 In	593924-001
SS02	S	07-24-18 16:00	6 In	593924-002
SS03	S	07-24-18 16:15	6 In	593924-003

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU Big Sinks 3-25-31TB

Project ID: Report Date: 03-AUG-18 Work Order Number(s): 593924 Date Received: 07/28/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3058496 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Lab Sample ID 593924-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 593924-001.

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

Batch: LBA-3058718 BTEX by EPA 8021B

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



Certificate of Analysis Summary 593924

LT Environmental, Inc., Arvada, CO Project Name: PLU Big Sinks 3-25-31TB



Project Id:

Contact: Adrian Baker
Project Location: Carlsbad, NM

Date Received in Lab: Sat Jul-28-18 09:00 am

Report Date: 03-AUG-18 **Project Manager:** Jessica Kramer

			1						
	Lab Id:	593924-0	001	593924-0	02	593924-0	03		
Analysis Requested	Field Id:	SS01		SS02	SS02				
Anaiysis Requesieu	Depth:	6- In		6- In		6- In			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Jul-24-18 1	1:30	Jul-24-18 1	6:00	Jul-24-18 1	6:15		
BTEX by EPA 8021B	Extracted:	Aug-01-18	08:00	Aug-02-18 (08:00	Aug-02-18 (08:00		
	Analyzed:	Aug-01-18	10:54	Aug-02-18	13:11	Aug-02-18	12:50		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200		
Toluene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200		
Ethylbenzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200		
m,p-Xylenes		< 0.00398	0.00398	< 0.00397	0.00397	< 0.00401	0.00401		
o-Xylene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200		
Total Xylenes		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200		
Total BTEX		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200		
Inorganic Anions by EPA 300	Extracted:	Jul-31-18 1	11:30	Jul-31-18 1	1:30	Jul-31-18 1	1:30		
	Analyzed:	Jul-31-18 1	19:30	Jul-31-18 1	9:36	Jul-31-18 1	9:43		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		<4.99	4.99	20.0	4.90	<4.97	4.97		
TPH by SW8015 Mod	Extracted:	Jul-30-18 1	16:00	Jul-30-18 1	6:00	Jul-30-18 1	6:00		
	Analyzed:	Jul-30-18 1	18:21	Jul-30-18 1	9:21	Jul-30-18 1	9:41		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)	·	<15.0	15.0	<15.0	15.0	<14.9	14.9		
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9		
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0	<14.9	14.9		
Total TPH		<15.0	15.0	<15.0	15.0	<14.9	14.9		

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Jessica Kramer
Project Assistant





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Soil

Sample Id: **SS01** Matrix:

Date Received:07.28.18 09.00

Lab Sample Id: 593924-001

Date Collected: 07.24.18 11.30

Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: Analyst:

Parameter

Chloride

SCM SCM

RL

4.99

% Moisture:

Wet Weight

Seq Number: 3058577

Date Prep:

<4.99

Result

Cas Number

16887-00-6

07.31.18 11.30

Basis:

Units

mg/kg

Flag

U

Dil

1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Analysis Date

07.31.18 19.30

Tech:

ARM

07.30.18 16.00 Date Prep:

% Moisture: Basis:

Wet Weight

ARM Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.30.18 18.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.30.18 18.21	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.30.18 18.21	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.30.18 18.21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	85	%	70-135	07.30.18 18.21		
o-Terphenyl		84-15-1	81	%	70-135	07.30.18 18.21		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id: **SS01**

Matrix: Soil Date Received:07.28.18 09.00

Lab Sample Id: 593924-001

Date Collected: 07.24.18 11.30

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

Analyst:

ALJ

Date Prep:

08.01.18 08.00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	08.01.18 10.54	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	08.01.18 10.54	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	08.01.18 10.54	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	08.01.18 10.54	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	08.01.18 10.54	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	08.01.18 10.54	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	08.01.18 10.54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	08.01.18 10.54		
4-Bromofluorobenzene		460-00-4	87	%	70-130	08.01.18 10.54		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id: **SS02**

Matrix: Soil Date Received:07.28.18 09.00

Lab Sample Id: 593924-002

Date Collected: 07.24.18 16.00

Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: SCM

SCM

Date Prep: 07.31.18 11.30 Basis:

Wet Weight

Seq Number: 3058577

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 07.31.18 19.36 20.0 4.90 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep:

07.30.18 16.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.30.18 19.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.30.18 19.21	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.30.18 19.21	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.30.18 19.21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	87	%	70-135	07.30.18 19.21		
o-Terphenyl		84-15-1	86	%	70-135	07.30.18 19.21		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Soil

Sample Id: **SS02** Matrix:

Date Received:07.28.18 09.00

Lab Sample Id: 593924-002

Date Collected: 07.24.18 16.00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

Analyst:

ALJ

08.02.18 08.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	08.02.18 13.11	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	08.02.18 13.11	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	08.02.18 13.11	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	08.02.18 13.11	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	08.02.18 13.11	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	08.02.18 13.11	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	08.02.18 13.11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	102	%	70-130	08.02.18 13.11		
1,4-Difluorobenzene		540-36-3	106	%	70-130	08.02.18 13.11		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Soil

Sample Id: **SS03**

Date Collected: 07.24.18 16.15

Date Received:07.28.18 09.00

Lab Sample Id: 593924-003

Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SCM % Moisture:

Analyst:

SCM

07.31.18 11.30 Date Prep:

Basis:

Wet Weight

Seq Number: 3058577

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	07.31.18 19.43	U	1

Matrix:

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

ARM

Tech: Analyst:

ARM

07.30.18 16.00 Date Prep:

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	07.30.18 19.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	07.30.18 19.41	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	07.30.18 19.41	U	1
Total TPH	PHC635	<14.9	14.9		mg/kg	07.30.18 19.41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	86	%	70-135	07.30.18 19.41		
o-Terphenyl		84-15-1	84	%	70-135	07.30.18 19.41		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Soil

Sample Id: **SS03** Matrix:

Date Received:07.28.18 09.00

Lab Sample Id: 593924-003

Date Collected: 07.24.18 16.15

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

08.02.18 08.00 Date Prep:

% Moisture:

Basis:

Wet Weight

Analyst:

ALJ

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.02.18 12.50	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.02.18 12.50	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.02.18 12.50	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	08.02.18 12.50	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.02.18 12.50	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.02.18 12.50	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.02.18 12.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	70-130	08.02.18 12.50		
1,4-Difluorobenzene		540-36-3	105	%	70-130	08.02.18 12.50		



Flagging Criteria



Page 123 of 280

- 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 593924

LT Environmental, Inc.

PLU Big Sinks 3-25-31TB

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3058577 Matrix: Solid

MB Sample Id: 7659420-1-BLK

LCS Sample Id: 7659420-1-BKS

E300P Prep Method:

Date Prep: 07.31.18

MR Spike LCS LCS LCSD LCSD **Parameter**

LCSD Sample Id: 7659420-1-BSD %RPD RPD Limit Units

Analysis Flag Date

Result Amount Result %Rec %Rec Result 07.31.18 16:29 Chloride < 5.00 250 251 100 250 100 90-110 0 20 mg/kg

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3058577

593692-028

Matrix: Soil

MS Sample Id: 593692-028 S

103

Prep Method:

E300P

Date Prep: 07.31.18

MSD Sample Id: 593692-028 SD

Parameter

Chloride

Parent Sample Id:

Spike Parent Result Amount 215 259

Parent

Result

23.4

MS MS Result %Rec 490 106

MSD MSD Result %Rec 481

90-110

Limits

Limits

%RPD RPD Limit Units 20

Analysis Flag Date

mg/kg 07.31.18 16:48

07.31.18 18:30

Analytical Method: Inorganic Anions by EPA 300

Seq Number:

3058577

260

Matrix: Soil

593692-035 S

300

Prep Method: Date Prep:

0

2

MSD Sample Id: 593692-035 SD

07.31.18

Parameter

Chloride

Parent Sample Id:

593692-035

MS Spike Result Amount

MS %Rec 300 106

MS Sample Id:

MSD MSD Result %Rec

Limits 90-110 106

%RPD RPD Limit Units

20

E300P

Analysis Flag Date

Flag

MB Sample Id:

Analytical Method: TPH by SW8015 Mod

Seq Number: 3058330

7659409-1-BLK LCS Sample Id:

Matrix: Solid

7659409-1-BKS

Prep Method:

mg/kg

TX1005P

07.30.18 Date Prep:

LCSD Sample Id: 7659409-1-BSD

%RPD RPD Limit Units MB Spike LCS LCS LCSD Limits Analysis **LCSD Parameter** Result %Rec Date Result Amount %Rec Result Gasoline Range Hydrocarbons (GRO) 918 92 934 70-135 2 20 07.30.18 17:40 <15.0 1000 93 mg/kg 07.30.18 17:40 955 96 959 96 70-135 0 20 Diesel Range Organics (DRO) 1000 <15.0 mg/kg

LCS LCSD MB MB LCS LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 1-Chlorooctane 89 124 124 70-135 % 07.30.18 17:40 100 07.30.18 17:40 o-Terphenyl 94 100 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

Flag



Seq Number:

MB Sample Id:

QC Summary 593924

LT Environmental, Inc.

PLU Big Sinks 3-25-31TB

Analytical Method: TPH by SW8015 Mod

3058330 Matrix: Soil

MS Sample Id: 593924-001 S Parent Sample Id: 593924-001

TX1005P Prep Method:

Date Prep: 07.30.18

MSD Sample Id: 593924-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP	D RPD Limi	t Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	880	88	902	90	70-135	2	20	mg/kg	07.30.18 18:41	
Diesel Range Organics (DRO)	<15.0	997	953	96	979	98	70-135	3	20	mg/kg	07.30.18 18:41	
G			N	AS 1	MS	MSE) MSI	D	Limits	Units	Analysis	

Surrogate %Rec Flag Flag Date %Rec 07.30.18 18:41 1-Chlorooctane 123 125 70-135 o-Terphenyl 94 92 70-135 07.30.18 18:41

Analytical Method: BTEX by EPA 8021B

Seq Number: 3058496

Matrix: Solid LCS Sample Id: 7659535-1-BKS 7659535-1-BLK

SW5030B Prep Method: Date Prep: 08.01.18

Prep Method:

LCSD Sample Id: 7659535-1-BSD

*				-					-		
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00202	0.101	0.0887	88	0.0867	87	70-130	2	35	mg/kg	08.01.18 08:50
Toluene	< 0.00202	0.101	0.0930	92	0.0920	92	70-130	1	35	mg/kg	08.01.18 08:50
Ethylbenzene	< 0.00202	0.101	0.108	107	0.106	106	70-130	2	35	mg/kg	08.01.18 08:50
m,p-Xylenes	< 0.00403	0.202	0.212	105	0.209	105	70-130	1	35	mg/kg	08.01.18 08:50
o-Xylene	< 0.00202	0.101	0.104	103	0.104	104	70-130	0	35	mg/kg	08.01.18 08:50
Surrogate	MB	MB			LCS	LCSI			Limits	Units	Analysis Data

Date %Rec Flag %Rec Flag %Rec Flag 08.01.18 08:50 1,4-Difluorobenzene 108 117 112 70-130 % 08.01.18 08:50 4-Bromofluorobenzene 82 84 89 70-130 %

Analytical Method: BTEX by EPA 8021B

Seq Number: 3058718 Matrix: Solid Date Prep: 08.02.18 LCS Sample Id: 7659651-1-BKS LCSD Sample Id: 7659651-1-BSD MB Sample Id: 7659651-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00202	0.101	0.107	106	0.106	105	70-130	1	35	mg/kg	08.02.18 10:06
Toluene	< 0.00202	0.101	0.106	105	0.105	104	70-130	1	35	mg/kg	08.02.18 10:06
Ethylbenzene	< 0.00202	0.101	0.114	113	0.112	111	70-130	2	35	mg/kg	08.02.18 10:06
m,p-Xylenes	< 0.00403	0.202	0.231	114	0.227	112	70-130	2	35	mg/kg	08.02.18 10:06
o-Xylene	< 0.00202	0.101	0.108	107	0.107	106	70-130	1	35	mg/kg	08.02.18 10:06

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag	Limits	Cints	Date
1,4-Difluorobenzene	107		118		115		70-130	%	08.02.18 10:06
4-Bromofluorobenzene	94		101		104		70-130	%	08.02.18 10:06

TCS

I CC

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]

MR

MR

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

LCS = Laboratory Control Sample

A = Parent Result

C = MS/LCS Result E = MSD/LCSD Result

LCSD

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

Analysis

SW5030B

I imita

Unite



Seq Number:

Parameter

Ethylbenzene

m,p-Xylenes

Benzene

Toluene

QC Summary 593924

LT Environmental, Inc.

PLU Big Sinks 3-25-31TB

Analytical Method: BTEX by EPA 8021B

3058496 Matrix: Soil

MS

Result

0.0586

0.0565

0.0568

0.114

Parent Sample Id: 593924-001 MS Sample Id: 593924-001 S

Prep Method: SW5030B

Date Prep: 08.01.18 MSD Sample Id: 593924-001 SD

Spike MS MS Limits %RPD RPD Limit Units Parent **MSD MSD** Analysis Flag **Parameter** Result Amount Result Date %Rec %Rec Result 7 08.01.18 09:31 Benzene < 0.00201 0.100 0.0710 71 0.0665 67 70-130 35 X mg/kg 73 35 08.01.18 09:31 Toluene < 0.00201 0.100 0.0726 0.0635 64 70-130 13 X mg/kg Ethylbenzene 79 08.01.18 09:31 X < 0.00201 0.100 0.07880.0641 64 70-130 21 35 mg/kg m,p-Xylenes < 0.00402 0.201 0.154 77 0.122 70-130 23 35 08.01.18 09:31 X 61 mg/kg 08.01.18 09:31 o-Xylene < 0.00201 0.100 0.0777 78 0.0622 62 70-130 22 35 X mg/kg

MS MS **MSD MSD** Limits Units Analysis Surrogate Flag Flag %Rec Date %Rec 111 114 70-130 08.01.18 09:31 1,4-Difluorobenzene % 08.01.18 09:31 4-Bromofluorobenzene 90 94 70-130 %

Analytical Method: BTEX by EPA 8021B

Seq Number: 3058718 Matrix: Soil

Parent

Result

< 0.00201

< 0.00201

< 0.00201

< 0.00402

Parent Sample Id: 593926-005 MS Sample Id: 593926-005 S

Spike

0.101

0.101

0.101

0.201

Amount

Prep Method: SW5030B Date Prep: 08.02.18

 Units
 Analysis Date
 Flag

 mg/kg
 08.02.18 10:47
 X

 mg/kg
 08.02.18 10:47
 X

08.02.18 10:47

08.02.18 10:47

X

X

X

mg/kg

mg/kg

08.02.18 10:47 o-Xylene < 0.00201 0.101 0.0534 53 70-130 mg/kg MS MS Limits Units Analysis **Surrogate** %Rec Flag Date

MS

58

56

56

57

%Rec

 1,4-Difluorobenzene
 110
 70-130
 %
 08.02.18 10:47

 4-Bromofluorobenzene
 104
 70-130
 %
 08.02.18 10:47

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B]

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

LCS = Laboratory Control Sample

A = Parent Result

Limits

70-130

70-130

70-130

70-130

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

Received by OCD: 9/1/2025 3:46:41 PM



Setting the Standard since 1990 Stafford, Texas (281-240-4200) Dallas Texas (214-902-0300)

CHAIN OF CUSTODY

Page 1 Of 1

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

Phoenix, Arizona (480-355-0900)

Client / Reporting Information Company Name / Branch: LT Environmental, Inc Permian Office Company Address: 3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705 Email: Project Location: Project Location: Project Location: Carl S bed NM Invoice To: SY = Soil/Sed/Soiled GW = Ground Wat DW = Drinking W. P = Product SW = Surface wat SL = Sludge OW = Ocean/Sea V Will = Wipe O = Oil WW= Waster SW = Surface wat SL = Sludge OW = Ocean/Sea V OW =
Project Name/Number: Project Name/Number: Project Name/Number: Project Name/Number: Project Name/Number: Project Location: Project Location: Project Location: Project Location: Project Location: Sing Sing k.s. 3-25-31 T/S Si
No. Field ID / Point of Collection Sample Depth Date Time Matrix bottles Type Warring bottles Type Warring bottles Type Warring to Type Warring to Type Warring to Type Warring Warring to Type Warring Type Warring Type Warring Warring Type Warring Type Warring Warring Type Warring Warring Type Warring T
1 SSO1 6" 7/24/18/1130 5 1 XXXXX
2 5507 6" 1600 1 1
3 5503 6" V 1615 V V XXXX
4
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8
9
10
Turnaround Time (Business days) Data Deliverable Information Notes:
Same Day TAT Level II Std QC Level IV (Full Data Pkg /raw data)
Next Day EMERGENCY 7 Day TAT Level III Std QC+ Forms TRRP Level IV
2 Day EMERGENCY Contract TAT Level 3 (CLP Forms) UST / RG -411
3 Day EMERGENCY TRRP Checklist
TAT Starts Day received by Lab, if received by 5:00 pm
Relinquished by Sampler: Received By: Rece
Relinquished by: Date Time: Received By: Custody Seal # Preserved where applicable Once Cooler Temp. Thermo. Corr. Factor Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility.

losses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.



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XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 07/28/2018 09:00:00 AM

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

Work Order #: 593924

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		.3
#2 *Shipping container in good condition?		Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping conf	tainer/ cooler?	N/A
#5 Custody Seals intact on sample bottles	s?	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 relinqui	ished/ 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 indicate	ed test(s)?	Yes
#16 All samples received within hold time	9?	Yes
#17 Subcontract of sample(s)?		N/A
#18 Water VOC samples have zero heads	space?	N/A
* Must be completed for after-hours del Analyst:	livery of samples prior to placing ir PH Device/Lot#:	n the refrigerator
Checklist completed by: Checklist reviewed by:	Brianna Teel Jessica Kramer Jessica Kramer	Date: <u>07/30/2018</u> Date: <u>07/30/2018</u>

Analytical Report 593925

for

LT Environmental, Inc.

Project Manager: Adrian Baker
PLU Big Sinks 3-25-31TB

03-AUG-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), 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 (T104704400-18-15)
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)
Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





03-AUG-18

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

Reference: XENCO Report No(s): 593925

PLU Big Sinks 3-25-31TB Project Address: Carlsbad, 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) 593925. 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. 593925 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

Jessian beamer

Project Assistant

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

Certified and approved by numerous States and Agencies.

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



Sample Cross Reference 593925



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	07-25-18 15:50	4 ft	593925-001
FS02	S	07-25-18 17:00	3.5 ft	593925-002
SS04	S	07-25-18 15:20	1 ft	593925-003

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU Big Sinks 3-25-31TB

Project ID: Report Date: 03-AUG-18 Work Order Number(s): 593925 Date Received: 07/28/2018

Sample receipt non conformances and comments:

per client email request, sample depth on FS02 changed to 3.5' and FS03 sample name changed to SS04. JKR 08/03/18

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3058718 BTEX by EPA 8021B

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

Batch: LBA-3058721 BTEX by EPA 8021B

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



Certificate of Analysis Summary 593925

LT Environmental, Inc., Arvada, CO

Project Name: PLU Big Sinks 3-25-31TB



Project Id: Contact:

Project Location:

Total Xylenes Total BTEX

Adrian Baker Carlsbad, NM Date Received in Lab: Sat Jul-28-18 09:00 am Report Date: 03-AUG-18

Project Manager: Jessica Kramer

	Lab Id:	593925-001	593925-002	593925-003		
Analysis Paguastad	Field Id:	FS01	FS02	SS04		
Analysis Requested	Depth:	4- ft	3.5- ft	1- ft		
	Matrix:	SOIL	SOIL	SOIL		
	Sampled:	Jul-25-18 15:50	Jul-25-18 17:00	Jul-25-18 15:20		
BTEX by EPA 8021B	Extracted:	Aug-02-18 08:00	Aug-02-18 08:00	Aug-02-18 14:00		
	Analyzed:	Aug-02-18 13:52	Aug-02-18 13:32	Aug-03-18 05:39		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		< 0.00202 0.00202	<0.00198 0.00198	< 0.00199 0.00199		
Toluene		< 0.00202 0.00202	<0.00198 0.00198	< 0.00199 0.00199		
Ethylbenzene		<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199		
m,p-Xylenes		<0.00403 0.00403	< 0.00396 0.00396	<0.00398 0.00398		
o-Xylene		< 0.00202 0.00202	< 0.00198 0.00198	< 0.00199 0.00199		

0.00198

0.00198

< 0.00199

< 0.00199

0.00199

0.00199

< 0.00198

< 0.00198

< 0.00202

< 0.00202

0.00202

0.00202

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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

lession beamer



Certificate of Analysis Summary 593925

LT Environmental, Inc., Arvada, CO

Project Name: PLU Big Sinks 3-25-31TB

Project Id:

Project Location:

Contact: Adrian Baker Carlsbad, NM Date Received in Lab: Sat Jul-28-18 09:00 am

Report Date: 03-AUG-18

Project Manager: Jessica Kramer

					1				1
	Lab Id:	593925-0	01	593925-0	02	593925-0	03		
Analysis Requested	Field Id:	FS01		FS02		SS04			
Anaiysis Kequesieu	Depth:	4- ft		3.5- ft		1- ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Jul-25-18 1	5:50	Jul-25-18 1	7:00	Jul-25-18 1	5:20		
Inorganic Anions by EPA 300	Extracted:	Jul-31-18 1	1:30	Jul-31-18 1	5:30	Jul-31-18 1	5:30		
	Analyzed:	Jul-31-18 1	9:50	Aug-01-18 (2:50	Aug-01-18 (2:57		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		221	4.95	30.7	4.97	12.3	4.99		
TPH by SW8015 Mod	Extracted:	Jul-30-18 1	6:00	Jul-30-18 1	5:00	Jul-30-18 1	5:00		
	Analyzed:	Jul-30-18 2	0:01	Jul-30-18 2	0:21	Jul-30-18 20	0:41		
	Units/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		
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	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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LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id: **FS01**

Matrix: Soil Date Received:07.28.18 09.00

Lab Sample Id: 593925-001

Date Collected: 07.25.18 15.50

Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

SCM

% Moisture:

Wet Weight

Analyst:

SCM

Date Prep:

07.31.18 11.30

Basis:

Seq Number: 3058577

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	221	4.95	mg/kg	07.31.18 19.50		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: Analyst: ARMARM

07.30.18 16.00 Date Prep:

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.30.18 20.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.30.18 20.01	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.30.18 20.01	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.30.18 20.01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	90	%	70-135	07.30.18 20.01		
o-Terphenyl		84-15-1	94	%	70-135	07.30.18 20.01		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id: FS01

Matrix: Soil

Date Received:07.28.18 09.00

Lab Sample Id: 593925-001

Date Collected: 07.25.18 15.50

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: AI

ALJ

% Moisture:

Basis:

Analyst: ALJ

Date Prep:

08.02.18 08.00

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	08.02.18 13.52	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	08.02.18 13.52	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	08.02.18 13.52	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	08.02.18 13.52	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	08.02.18 13.52	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	08.02.18 13.52	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	08.02.18 13.52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	112	%	70-130	08.02.18 13.52		
4-Bromofluorobenzene		460-00-4	104	%	70-130	08.02.18 13.52		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id: FS02

Matrix: Soil

Date Received:07.28.18 09.00

Lab Sample Id: 593925-002

Date Collected: 07.25.18 17.00

Sample Depth: 3.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: SCM SCM

Date Prep:

07.31.18 16.30

Basis:

Wet Weight

Seq Number: 3058518

-

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.7	4.97	mg/kg	08.01.18 02.50		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 07.30.18 16.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.30.18 20.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.30.18 20.21	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.30.18 20.21	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.30.18 20.21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-135	07.30.18 20.21		
o-Terphenyl		84-15-1	94	%	70-135	07.30.18 20.21		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Soil

Sample Id: FS02

Matrix:

Date Received:07.28.18 09.00

Lab Sample Id: 593925-002

Date Collected: 07.25.18 17.00

Sample Depth: 3.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

oisture:

Analyst: AI

ALJ

Date Prep: 08.02.18 08.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	08.02.18 13.32	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	08.02.18 13.32	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	08.02.18 13.32	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	08.02.18 13.32	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	08.02.18 13.32	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	08.02.18 13.32	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	08.02.18 13.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	107	%	70-130	08.02.18 13.32		
1,4-Difluorobenzene		540-36-3	108	%	70-130	08.02.18 13.32		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id: **SS04** Matrix:

Soil

Date Received:07.28.18 09.00

Lab Sample Id: 593925-003

Date Collected: 07.25.18 15.20

Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: Analyst: SCM SCM

Date Prep:

07.31.18 16.30

% Moisture: Basis:

Wet Weight

Seq Number: 3058518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.3	4.99	mg/kg	08.01.18 02.57		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: Analyst: ARMARM

Date Prep:

07.30.18 16.00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.30.18 20.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.30.18 20.41	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.30.18 20.41	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.30.18 20.41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	07.30.18 20.41		
o-Terphenyl		84-15-1	97	%	70-135	07.30.18 20.41		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Soil

Sample Id: SS04

Matrix:

Date Received:07.28.18 09.00

Lab Sample Id: 593925-003

Date Collected: 07.25.18 15.20

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	08.03.18 05.39	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	08.03.18 05.39	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	08.03.18 05.39	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	08.03.18 05.39	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	08.03.18 05.39	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	08.03.18 05.39	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	08.03.18 05.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	99	%	70-130	08.03.18 05.39		
1,4-Difluorobenzene		540-36-3	107	%	70-130	08.03.18 05.39		



Flagging Criteria



Page 142 of 280

- 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.

Flag

Flag

Flag



QC Summary 593925

LT Environmental, Inc.

PLU Big Sinks 3-25-31TB

LCSD

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3058577

> LCS Sample Id: Spike

> > Amount

LCS

Result

7659420-1-BKS

E300P Prep Method: Date Prep:

07.31.18

MB Sample Id: 7659420-1-BLK

MR

Result

LCSD Sample Id: 7659420-1-BSD %RPD RPD Limit Units

Analysis Date

Result 07.31.18 16:29 Chloride < 5.00 250 251 100 250 100 90-110 0 20 mg/kg

Matrix: Solid

LCS

%Rec

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3058518

Parameter

MB Sample Id:

7659551-1-BLK

Matrix: Solid

LCS Sample Id:

7659551-1-BKS

LCSD

%Rec

Limits

Prep Method: E300P Date Prep: 07.31.18

LCSD Sample Id: 7659551-1-BSD

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

Chloride <4.99 250 254 102 252 101 90-110 20 mg/kg 07.31.18 23:57

Analytical Method: Inorganic Anions by EPA 300

3058577 Seq Number:

Matrix: Soil

Date Prep:

Prep Method:

E300P 07.31.18

Analysis

MS Sample Id: 593692-028 S MSD Sample Id: 593692-028 SD 593692-028 Parent Sample Id:

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

Result Date Result %Rec Amount Result %Rec Chloride 215 259 490 106 481 103 90-110 2 20 07.31.18 16:48 mg/kg

Analytical Method: Inorganic Anions by EPA 300

Seq Number:

Parent Sample Id:

Parent Sample Id:

3058577

593692-035

Matrix: Soil MS Sample Id: 593692-035 S

MSD Sample Id:

E300P

Date Prep: 07.31.18

Prep Method:

593692-035 SD

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

Chloride 23.4 300 106 300 90-110 0 20 07.31.18 18:30 260 106 mg/kg

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3058518

594074-002

Matrix: Soil MS Sample Id:

594074-002 S

E300P Prep Method: Date Prep:

07.31.18

MSD Sample Id: 594074-002 SD

Parent Spike MS MS Limits %RPD RPD Limit Units Analysis **MSD MSD** Flag **Parameter** Result Date Result Amount %Rec Result %Rec Chloride <7.32 366 381 104 380 104 90-110 0 20 mg/kg 08.01.18 01:50

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:

Seq Number:

QC Summary 593925

LT Environmental, Inc.

PLU Big Sinks 3-25-31TB

Analytical Method: Inorganic Anions by EPA 300

3058518 Matrix: Soil

MS Sample Id: 594127-001 S Parent Sample Id: 594127-001

E300P Prep Method:

> Date Prep: 07.31.18

MSD Sample Id: 594127-001 SD

Spike MS MS Limits %RPD RPD Limit Units Parent **MSD MSD** Analysis Flag **Parameter** Result Amount Result Date %Rec %Rec Result 90-110 08.01.18 00:17 Chloride 7.28 251 269 104 272 105 20 mg/kg

Analytical Method: TPH by SW8015 Mod

3058330

Matrix: Solid

Prep Method: Date Prep:

TX1005P

07.30.18

MB Sample Id: 7659409-1-BLK LCS Sample Id: 7659409-1-BKS LCSD Sample Id: 7659409-1-BSD

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 918 92 934 93 70-135 2 20 07.30.18 17:40 <15.0 mg/kg Diesel Range Organics (DRO) 1000 955 96 959 70-135 0 20 07.30.18 17:40 <15.0 96 mg/kg

MB MB LCS LCS LCSD LCSD Limits Units Analysis Surrogate %Rec %Rec Flag Flag %Rec Flag Date 07.30.18 17:40 1-Chlorooctane 89 124 124 70-135 % 94 100 100 70-135 07.30.18 17:40 o-Terphenyl %

Analytical Method: TPH by SW8015 Mod

Seq Number: 3058330

Matrix: Soil

Prep Method:

TX1005P

Date Prep: 07.30.18

MS Sample Id: 593924-001 S MSD Sample Id: 593924-001 SD Parent Sample Id: 593924-001

MS MS %RPD RPD Limit Units Analysis Parent Spike **MSD** MSD Limits **Parameter** Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 997 880 902 07.30.18 18:41 <15.0 88 90 70-135 2 20 mg/kg 997 953 979 70-135 3 20 07.30.18 18:41 Diesel Range Organics (DRO) <15.0 96 98 mg/kg

MS MS **MSD** Limits Units Analysis **MSD Surrogate** %Rec Flag %Rec Flag Date 07.30.18 18:41 123 125 1-Chlorooctane 70-135 % 07.30.18 18:41 o-Terphenyl 94 92 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

Flag



QC Summary 593925

LT Environmental, Inc.

PLU Big Sinks 3-25-31TB

Analytical Method: BTEX by EPA 8021B SW5030B Prep Method: Seq Number: 3058718 Matrix: Solid Date Prep: 08.02.18

LCS Sample Id: 7659651-1-BKS LCSD Sample Id: 7659651-1-BSD MB Sample Id: 7659651-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date
Benzene	< 0.00202	0.101	0.107	106	0.106	105	70-130	1	35	mg/kg	08.02.18 10:06
Toluene	< 0.00202	0.101	0.106	105	0.105	104	70-130	1	35	mg/kg	08.02.18 10:06
Ethylbenzene	< 0.00202	0.101	0.114	113	0.112	111	70-130	2	35	mg/kg	08.02.18 10:06
m,p-Xylenes	< 0.00403	0.202	0.231	114	0.227	112	70-130	2	35	mg/kg	08.02.18 10:06
o-Xylene	< 0.00202	0.101	0.108	107	0.107	106	70-130	1	35	mg/kg	08.02.18 10:06
Cumacata	MB	MB	L	cs I	.cs	LCSI	D LCS	D L	imits	Units	Analysis

MB LCS LCSD Limits Units Analysis **Surrogate** Flag %Rec Flag Flag Date %Rec %Rec 107 118 115 70-130 08.02.18 10:06 1,4-Difluorobenzene % 08.02.18 10:06 4-Bromofluorobenzene 94 101 104 70-130 %

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

Seq Number: 3058721 Matrix: Solid Date Prep: 08.02.18 LCS Sample Id: 7659654-1-BKS LCSD Sample Id: 7659654-1-BSD 7659654-1-BLK MB Sample Id:

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00201	0.100	0.107	107	0.0979	97	70-130	9	35	mg/kg	08.02.18 21:41
Toluene	< 0.00201	0.100	0.102	102	0.0937	93	70-130	8	35	mg/kg	08.02.18 21:41
Ethylbenzene	< 0.00201	0.100	0.109	109	0.0989	98	70-130	10	35	mg/kg	08.02.18 21:41
m,p-Xylenes	< 0.00402	0.201	0.225	112	0.204	101	70-130	10	35	mg/kg	08.02.18 21:41
o-Xylene	< 0.00201	0.100	0.108	108	0.0980	97	70-130	10	35	mg/kg	08.02.18 21:41

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		126		114		70-130	%	08.02.18 21:41
4-Bromofluorobenzene	90		98		95		70-130	%	08.02.18 21:41

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

Seq Number: 3058721 Matrix: Soil Date Prep: 08.02.18 MS Sample Id: 594409-001 S MSD Sample Id: 594409-001 SD Parent Sample Id: 594409-001

%RPD RPD Limit Units **Parent** Spike MS MS **MSD MSD** Limits **Analysis** Darameter

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0800	79	0.0883	88	70-130	10	35	mg/kg	08.02.18 22:22	
Toluene	< 0.00202	0.101	0.0757	75	0.0801	80	70-130	6	35	mg/kg	08.02.18 22:22	
Ethylbenzene	< 0.00202	0.101	0.0685	68	0.0704	70	70-130	3	35	mg/kg	08.02.18 22:22	X
m,p-Xylenes	< 0.00403	0.202	0.136	67	0.140	70	70-130	3	35	mg/kg	08.02.18 22:22	X
o-Xylene	< 0.00202	0.101	0.0667	66	0.0667	67	70-130	0	35	mg/kg	08.02.18 22:22	X

Surrogate	MS MS %Rec Flag	MSD %Rec	MSD Limits Flag	Units	Analysis Date
1,4-Difluorobenzene	122	125	70-130	%	08.02.18 22:22
4-Bromofluorobenzene	108	99	70-130	%	08.02.18 22:22

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

08.02.18

Date Prep:



QC Summary 593925

LT Environmental, Inc.

PLU Big Sinks 3-25-31TB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3058718 Matrix: Soil

Parent Sample Id: 593926-005 MS Sample Id: 593926-005 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.0586	58	70-130	mg/kg	08.02.18 10:47	X
Toluene	< 0.00201	0.101	0.0565	56	70-130	mg/kg	08.02.18 10:47	X
Ethylbenzene	< 0.00201	0.101	0.0568	56	70-130	mg/kg	08.02.18 10:47	X
m,p-Xylenes	< 0.00402	0.201	0.114	57	70-130	mg/kg	08.02.18 10:47	X
o-Xylene	< 0.00201	0.101	0.0534	53	70-130	mg/kg	08.02.18 10:47	X

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		70-130	%	08.02.18 10:47
4-Bromofluorobenzene	104		70-130	%	08.02.18 10:47

 $\begin{array}{ccc} \textbf{CHAIN} & \textbf{OF} & \textbf{CUSTODY} \\ & & \bot & \text{of} & \bot \end{array}$

Setting the Standard since 1990 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)

Final 1.000

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- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 07/28/2018 09:00:00 AM

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

Date: 07/30/2018

Work Order #: 593925

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
	Sample Necelpt Checklist	
#1 *Temperature of cooler(s)?		.3
#2 *Shipping container in good condition	1?	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 relinq	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 hea	dspace?	N/A
* Must be completed for after-hours de	elivery of samples prior to placing in	the refrigerator
Analyst:	PH Device/Lot#:	
Checklist completed by:	Brianna Teel	Date: <u>07/30/2018</u>

Checklist reviewed by:

Analytical Report 593926

for

LT Environmental, Inc.

Project Manager: Adrian Baker
PLU Big Sinks 3-25-31TB

03-AUG-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), 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 (T104704400-18-15)
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)
Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





03-AUG-18

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

Reference: XENCO Report No(s): 593926

PLU Big Sinks 3-25-31TB Project Address: Carlsbad, 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) 593926. 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. 593926 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

Jessian beamer

Project Assistant

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

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Sample Cross Reference 593926



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW01	S	07-26-18 11:00	2.5 ft	593926-001
SW02	S	07-26-18 11:30	2.5 ft	593926-002
SW03	S	07-26-18 13:00	2.5 ft	593926-003
FS04	S	07-26-18 14:30	3 ft	593926-004
SW04	S	07-26-18 14:15	1 ft	593926-005
SW05	S	07-26-18 13:00	2.5 ft	593926-006

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU Big Sinks 3-25-31TB

Project ID: Report Date: 03-AUG-18
Work Order Number(s): 593926 Date Received: 07/28/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3058496 BTEX by EPA 8021B

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

Batch: LBA-3058718 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Lab Sample ID 593926-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 593926-001, -005. The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analysis Summary 593926

LT Environmental, Inc., Arvada, CO

Project Name: PLU Big Sinks 3-25-31TB

Page 154 of

Project Id: Contact:

Project Location:

Adrian Baker

Carlsbad, NM

Date Received in Lab: Sat Jul-28-18 09:00 am

Report Date: 03-AUG-18 **Project Manager:** Jessica Kramer

		50000 5	004		202	70202 54		50000	004		00.5	50000 5	00.5
	Lab Id:	593926-0	001	593926-0)02	593926-0	003	593926-	004	593926-	005	593926-0	006
Analysis Requested	Field Id:	SW01	l	SW02	!	SW03		FS04		SW04	4	SW05	5
mutysis Requesicu	Depth:	2.5- f	t	2.5- ft	:	2.5- ft		3- ft		1- ft		2.5- f	t
	Matrix:	SOIL	,	SOIL	,	SOIL		SOIL		SOIL	.	SOIL	
	Sampled:	Jul-26-18	11:00	Jul-26-18	11:30	Jul-26-18	3:00	Jul-26-18	14:30	Jul-26-18	14:15	Jul-26-18	13:00
BTEX by EPA 8021B	Extracted:	Aug-02-18	08:00	Aug-01-18	08:00	Aug-01-18	08:00	Aug-01-18	08:00	Aug-02-18	08:00	Aug-01-18	08:00
	Analyzed:	Aug-02-18	12:29	Aug-01-18	13:39	Aug-01-18	15:48	Aug-01-18	16:09	Aug-02-18	12:09	Aug-01-18	16:30
	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	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202
Toluene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202
Ethylbenzene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202
m,p-Xylenes		< 0.00402	0.00402	< 0.00401	0.00401	< 0.00398	0.00398	< 0.00402	0.00402	< 0.00404	0.00404	< 0.00403	0.00403
o-Xylene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202
Total Xylenes		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202
Total BTEX		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202
Inorganic Anions by EPA 300	Extracted:	Jul-31-18	16:30	Aug-01-18	09:30	Aug-01-18	09:30	Aug-01-18	09:30	Aug-01-18	09:30	Aug-01-18	09:30
	Analyzed:	Aug-01-18	03:04	Aug-01-18	12:22	Aug-01-18	12:42	Aug-01-18	12:48	Aug-01-18	12:55	Aug-01-18	13:02
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		26.7	4.97	<4.98	4.98	<4.99	4.99	15.1	4.98	<4.98	4.98	9.04	4.97
TPH by SW8015 Mod	Extracted:	Jul-30-18	16:00	Jul-30-18	16:00	Jul-30-18 1	6:00	Jul-30-18	16:00	Jul-30-18	16:00	Jul-30-18	16:00
	Analyzed:	Jul-31-18	07:17	Jul-30-18 2	22:00	Jul-30-18 2	22:21	Jul-30-18	22:40	Jul-30-18	23:00	Jul-30-18 2	23:20
	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	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		16.8	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		16.8	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Weamer





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Soil

Sample Id: **SW01**

Date Received:07.28.18 09.00

Lab Sample Id: 593926-001 Date Collected: 07.26.18 11.00 Sample Depth: 2.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

SCM Tech:

Analyst:

SCM

Date Prep: 07.31.18 16.30 % Moisture:

Basis:

Wet Weight

Seq Number: 3058518

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 08.01.18 03.04 26.7 4.97 mg/kg 1

Matrix:

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

07.30.18 16.00 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	07.31.18 07.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	16.8	15.0		mg/kg	07.31.18 07.17		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.31.18 07.17	U	1
Total TPH	PHC635	16.8	15.0		mg/kg	07.31.18 07.17		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-135	07.31.18 07.17		
o-Terphenyl		84-15-1	97	%	70-135	07.31.18 07.17		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id: SW01

Matrix: Soil

Date Received:07.28.18 09.00

Lab Sample Id: 593926-001

Date Collected: 07.26.18 11.00

Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

Analyst: ALJ

Date Prep:

08.02.18 08.00

Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	08.02.18 12.29	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	08.02.18 12.29	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	08.02.18 12.29	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	08.02.18 12.29	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	08.02.18 12.29	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	08.02.18 12.29	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	08.02.18 12.29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	110	%	70-130	08.02.18 12.29		
4-Bromofluorobenzene		460-00-4	104	%	70-130	08.02.18 12.29		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id: **SW02** Matrix:

Soil

Date Received:07.28.18 09.00

Lab Sample Id: 593926-002

Date Collected: 07.26.18 11.30

Sample Depth: 2.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

SCM

% Moisture:

SCM Analyst:

08.01.18 09.30

Basis:

Wet Weight

Seq Number: 3058584

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mø/kø	08.01.18.12.22	U	1

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech: Analyst: ARMARM

Date Prep:

07.30.18 16.00

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.30.18 22.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.30.18 22.00	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.30.18 22.00	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.30.18 22.00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	07.30.18 22.00		
o-Terphenyl		84-15-1	99	%	70-135	07.30.18 22.00		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

08.01.18 08.00

Sample Id: SW02

Matrix: Soil

Date Received:07.28.18 09.00

Lab Sample Id: 593926-002

Date Collected: 07.26.18 11.30

Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

Analyst: ALJ

Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.01.18 13.39	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.01.18 13.39	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.01.18 13.39	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	08.01.18 13.39	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.01.18 13.39	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.01.18 13.39	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.01.18 13.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	88	%	70-130	08.01.18 13.39		
1,4-Difluorobenzene		540-36-3	102	%	70-130	08.01.18 13.39		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id: SW03

Matrix:

Soil

Date Received:07.28.18 09.00

Lab Sample Id: 593926-003

Date Collected: 07.26.18 13.00

Sample Depth: 2.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: SCM SCM

Date Prep:

08.01.18 09.30

Basis:

Wet Weight

Seq Number: 3058584

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	08.01.18 12.42	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 07.30.18 16.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.30.18 22.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.30.18 22.21	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.30.18 22.21	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.30.18 22.21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	07.30.18 22.21		
o-Terphenyl		84-15-1	94	%	70-135	07.30.18 22.21		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id: SW03

Matrix: Soil

Date Received:07.28.18 09.00

Lab Sample Id: 593926-003

Date Collected: 07.26.18 13.00

Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

Analyst:

ALJ

Date Prep: 08.01.18 08.00

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	08.01.18 15.48	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	08.01.18 15.48	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	08.01.18 15.48	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	08.01.18 15.48	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	08.01.18 15.48	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	08.01.18 15.48	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	08.01.18 15.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	85	%	70-130	08.01.18 15.48		
1,4-Difluorobenzene		540-36-3	107	%	70-130	08.01.18 15.48		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id: FS04 Matrix:

Date Prep:

Soil

Date Received:07.28.18 09.00

Lab Sample Id: 593926-004

Date Collected: 07.26.18 14.30

Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

SCM

% Moisture:

Analyst:

SCM

08.01.18 09.30

Basis:

Wet Weight

Seq Number: 3058584

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.1	4.98	mg/kg	08.01.18 12.48		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech:

ARM

% Moisture:

ARM Analyst:

07.30.18 16.00 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	07.30.18 22.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.30.18 22.40	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.30.18 22.40	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.30.18 22.40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	07.30.18 22.40		
o-Terphenyl		84-15-1	93	%	70-135	07.30.18 22.40		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

08.01.18 08.00

Sample Id: FS04

)4

Matrix: Soil

Date Received:07.28.18 09.00

Lab Sample Id: 593926-004

Date Collected: 07.26.18 14.30

Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

Date Prep:

% Moisture:

Basis:

Wet Weight

Analyst: ALJ Seq Number: 3058496

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	08.01.18 16.09	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	08.01.18 16.09	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	08.01.18 16.09	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	08.01.18 16.09	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	08.01.18 16.09	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	08.01.18 16.09	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	08.01.18 16.09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	88	%	70-130	08.01.18 16.09		
1,4-Difluorobenzene		540-36-3	108	%	70-130	08.01.18 16.09		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id: **SW04** Matrix:

Soil

Date Received:07.28.18 09.00

Lab Sample Id: 593926-005

Date Collected: 07.26.18 14.15

Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P % Moisture:

Tech: SCM

Analyst:

SCM

Date Prep:

08.01.18 09.30

Basis:

Wet Weight

Seq Number: 3058584

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	08.01.18 12.55	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

Date Prep:

07.30.18 16.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.30.18 23.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.30.18 23.00	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.30.18 23.00	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.30.18 23.00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	90	%	70-135	07.30.18 23.00		
o-Terphenyl		84-15-1	87	%	70-135	07.30.18 23.00		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Soil

Sample Id: **SW04** Matrix:

Date Received:07.28.18 09.00

Lab Sample Id: 593926-005

Date Collected: 07.26.18 14.15

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

Analyst:

ALJ

08.02.18 08.00 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	08.02.18 12.09	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	08.02.18 12.09	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	08.02.18 12.09	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	08.02.18 12.09	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	08.02.18 12.09	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	08.02.18 12.09	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	08.02.18 12.09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	110	%	70-130	08.02.18 12.09		
1,4-Difluorobenzene		540-36-3	109	%	70-130	08.02.18 12.09		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

Sample Id: **SW05** Matrix: Soil

Result

9.04

16887-00-6

Date Received:07.28.18 09.00

Lab Sample Id: 593926-006

Date Collected: 07.26.18 13.00

Sample Depth: 2.5 ft

Analysis Date

08.01.18 13.02

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: Analyst:

Chloride

SCM SCM

Date Prep:

% Moisture:

Wet Weight

Seq Number: 3058584

Parameter Cas Number 08.01.18 09.30

Basis:

Units

mg/kg

Dil

1

Flag

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

07.30.18 16.00 Date Prep:

RL

4.97

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	07.30.18 23.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	07.30.18 23.20	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	07.30.18 23.20	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	07.30.18 23.20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	07.30.18 23.20		
o-Terphenyl		84-15-1	97	%	70-135	07.30.18 23.20		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31TB

08.01.18 08.00

Sample Id: **SW05**

Soil Matrix:

Date Received:07.28.18 09.00

Lab Sample Id: 593926-006

Date Collected: 07.26.18 13.00

Sample Depth: 2.5 ft

08.01.18 16.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Basis:

Tech:

Date Prep:

% Moisture:

70-130

Wet Weight

ALJ Analyst: ALJ

Seq Number: 3058496

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	08.01.18 16.30	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	08.01.18 16.30	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	08.01.18 16.30	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	08.01.18 16.30	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	08.01.18 16.30	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	08.01.18 16.30	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	08.01.18 16.30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	90	%	70-130	08.01.18 16.30		

109

540-36-3



Flagging Criteria



Page 167 of 280

- 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

E300P

Analysis

Flag

%RPD RPD Limit Units

Prep Method:

Prep Method:



QC Summary 593926

LT Environmental, Inc.

PLU Big Sinks 3-25-31TB

LCSD

LCSD

Limits

Analytical Method: Inorganic Anions by EPA 300 Prep Method:

LCS

Spike

Seq Number: 3058518 Matrix: Solid Date Prep: 07.31.18

LCS Sample Id: 7659551-1-BKS LCSD Sample Id: 7659551-1-BSD MB Sample Id: 7659551-1-BLK LCS

Parameter Result Amount Result %Rec Date %Rec Result 07.31.18 23:57 Chloride <4.99 250 254 102 252 101 90-110 20 mg/kg

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

Seq Number: 3058584 Matrix: Solid Date Prep: 08.01.18

MB Sample Id: 7659574-1-BLK LCS Sample Id: 7659574-1-BKS LCSD Sample Id: 7659574-1-BSD

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

Chloride < 5.00 250 247 99 248 99 90-110 0 20 mg/kg 08.01.18 12:08

Analytical Method: Inorganic Anions by EPA 300

MR

3058518 Matrix: Soil 07.31.18 Seq Number: Date Prep:

MS Sample Id: 594074-002 S MSD Sample Id: 594074-002 SD 594074-002 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 < 7.32 366 381 104 380 104 90-110 0 20 08.01.18 01:50 mg/kg

Analytical Method: Inorganic Anions by EPA 300

3058518 07.31.18 Seq Number: Matrix: Soil Date Prep: MSD Sample Id: 594127-001 SD 594127-001 MS Sample Id: 594127-001 S Parent Sample Id:

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

Chloride 7.28 251 269 104 272 90-110 20 08.01.18 00:17 105 1 mg/kg

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

Matrix: Soil Seq Number: 3058584 Date Prep: 08.01.18

Parent Sample Id: 593926-002 MS Sample Id: 593926-002 S MSD Sample Id: 593926-002 SD

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

Chloride <4.98 249 248 100 248 100 90-110 0 20 mg/kg 08.01.18 12:28

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 593926

LT Environmental, Inc.

PLU Big Sinks 3-25-31TB

Analytical Method: Inorganic Anions by EPA 300

3058584 Matrix: Soil

MS Sample Id: 593927-007 S Parent Sample Id: 593927-007

E300P Prep Method:

Date Prep: 08.01.18

MSD Sample Id: 593927-007 SD

Spike MS MS Limits %RPD RPD Limit Units Parent **MSD MSD** Analysis Flag **Parameter** Result Amount Result Date %Rec %Rec Result 08.01.18 14:02 Chloride 500 248 729 92 728 92 90-110 0 20 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number: 3058330

Matrix: Solid

TX1005P Prep Method:

Date Prep: 07.30.18

MB Sample Id: 7659409-1-BLK LCS Sample Id: 7659409-1-BKS LCSD Sample Id: 7659409-1-BSD

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 918 92 934 93 70-135 2 20 07.30.18 17:40 <15.0 mg/kg Diesel Range Organics (DRO) 1000 955 96 959 70-135 0 20 07.30.18 17:40 <15.0 96 mg/kg

MB MB LCS LCS LCSD LCSD Limits Units Analysis Surrogate %Rec %Rec Flag Flag %Rec Flag Date 07.30.18 17:40 1-Chlorooctane 89 124 124 70-135 % 94 100 100 70-135 07.30.18 17:40 o-Terphenyl %

Analytical Method: TPH by SW8015 Mod

Seq Number: 3058330

Parent Sample Id:

593924-001

Matrix: Soil

MS Sample Id: 593924-001 S Prep Method: TX1005P

Date Prep: 07.30.18

MSD Sample Id: 593924-001 SD

MS MS %RPD RPD Limit Units Analysis Parent Spike **MSD** MSD Limits **Parameter** Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 997 880 902 07.30.18 18:41 <15.0 88 90 70-135 2 20 mg/kg 997 953 979 70-135 3 20 07.30.18 18:41 Diesel Range Organics (DRO) <15.0 96 98 mg/kg

MS MS **MSD** Limits Units Analysis **MSD Surrogate** %Rec Flag %Rec Flag Date 07.30.18 18:41 123 125 1-Chlorooctane 70-135 % 07.30.18 18:41 o-Terphenyl 94 92 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

08.01.18 08:50

08.01.18 08:50

Analysis

Flag



1,4-Difluorobenzene

4-Bromofluorobenzene

QC Summary 593926

LT Environmental, Inc.

PLU Big Sinks 3-25-31TB

112

89

70-130

70-130

Limits

%

%

Units

SW5030B Analytical Method: BTEX by EPA 8021B Prep Method: Seq Number: 3058496 Matrix: Solid Date Prep: 08.01.18

LCS Sample Id: 7659535-1-BKS LCSD Sample Id: 7659535-1-BSD MB Sample Id: 7659535-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0887	88	0.0867	87	70-130	2	35	mg/kg	08.01.18 08:50	
Toluene	< 0.00202	0.101	0.0930	92	0.0920	92	70-130	1	35	mg/kg	08.01.18 08:50	
Ethylbenzene	< 0.00202	0.101	0.108	107	0.106	106	70-130	2	35	mg/kg	08.01.18 08:50	
m,p-Xylenes	< 0.00403	0.202	0.212	105	0.209	105	70-130	1	35	mg/kg	08.01.18 08:50	
o-Xylene	< 0.00202	0.101	0.104	103	0.104	104	70-130	0	35	mg/kg	08.01.18 08:50	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re		-	Limits	Units	Analysis Date	

Analytical Method: BTEX by EPA 8021B SW5030B Prep Method: Seq Number: 3058718 Matrix: Solid Date Prep: 08.02.18

117

84

LCS Sample Id: 7659651-1-BKS LCSD Sample Id: 7659651-1-BSD 7659651-1-BLK MB Sample Id:

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date
Benzene	< 0.00202	0.101	0.107	106	0.106	105	70-130	1	35	mg/kg	08.02.18 10:06
Toluene	< 0.00202	0.101	0.106	105	0.105	104	70-130	1	35	mg/kg	08.02.18 10:06
Ethylbenzene	< 0.00202	0.101	0.114	113	0.112	111	70-130	2	35	mg/kg	08.02.18 10:06
m,p-Xylenes	< 0.00403	0.202	0.231	114	0.227	112	70-130	2	35	mg/kg	08.02.18 10:06
o-Xylene	< 0.00202	0.101	0.108	107	0.107	106	70-130	1	35	mg/kg	08.02.18 10:06

Surrogate	%Rec	Flag %Rec	Flag %Re			Date
1,4-Difluorobenzene	107	118	115	70-130	%	08.02.18 10:06
4-Bromofluorobenzene	94	101	104	70-130	%	08.02.18 10:06

LCS

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

LCS

Seq Number: 3058496 Matrix: Soil Date Prep: 08.01.18 MS Sample Id: 593924-001 S MSD Sample Id: 593924-001 SD Parent Sample Id: 593924-001

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.0710	71	0.0665	67	70-130	7	35	mg/kg	08.01.18 09:31	X
Toluene	< 0.00201	0.100	0.0726	73	0.0635	64	70-130	13	35	mg/kg	08.01.18 09:31	X
Ethylbenzene	< 0.00201	0.100	0.0788	79	0.0641	64	70-130	21	35	mg/kg	08.01.18 09:31	X
m,p-Xylenes	< 0.00402	0.201	0.154	77	0.122	61	70-130	23	35	mg/kg	08.01.18 09:31	X
o-Xylene	< 0.00201	0.100	0.0777	78	0.0622	62	70-130	22	35	mg/kg	08.01.18 09:31	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		114		70-130	%	08.01.18 09:31
4-Bromofluorobenzene	90		94		70-130	%	08.01.18 09:31

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]

108

82

MB

MB

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

Prep Method: SW5030B

08.02.18

Date Prep:



QC Summary 593926

LT Environmental, Inc.

PLU Big Sinks 3-25-31TB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3058718 Matrix: Soil

Parent Sample Id: 593926-005 MS Sample Id: 593926-005 S

r arent sampre rai	0,0,20 000			1				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.0586	58	70-130	mg/kg	08.02.18 10:47	X
Toluene	< 0.00201	0.101	0.0565	56	70-130	mg/kg	08.02.18 10:47	X
Ethylbenzene	< 0.00201	0.101	0.0568	56	70-130	mg/kg	08.02.18 10:47	X
m,p-Xylenes	< 0.00402	0.201	0.114	57	70-130	mg/kg	08.02.18 10:47	X
o-Xylene	< 0.00201	0.101	0.0534	53	70-130	mg/kg	08.02.18 10:47	X

Surrogate	MS MS %Rec Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110	70-130	%	08.02.18 10:47
4-Bromofluorobenzene	104	70-130	%	08.02.18 10:47

Stafford, Texas (281-240-4200)

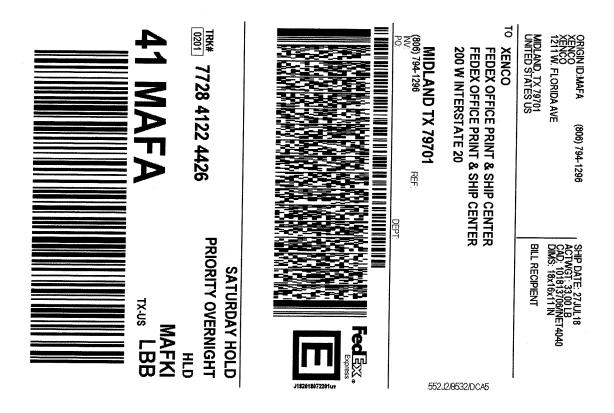
Dallas Texas (214-902-0300)

CHAIN OF CUSTODY

Page <u>1</u> Of <u>1</u>

San Antonio, Texas (210-509-3334) Midland, Texas (432-704-5251) Phoenix, Arizona (480-355-0900)

Company Name / Branch: LT Environmental, Inc Permian Office Company Address: 3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705 Email: Phone No: Abaker@itenv.com (432) 704-5178 Project Information Project Information Project Name/Number: Name Number: Na		120	454	5	Job#	Xenco			e #	o Quot	Xenc					<u>om</u>	enco.c	www.xe										
3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705	s	Matrix Codes				tion	Informa	alytica	A	T	L,													<u> </u>		1.6.		0"
Sample Date	Water J Water water	S = Soil/Sed/Solid GW = Ground Wate DW = Drinking Wa' P = Product SW = Surface wate SL = Sludge OW = Ocean/Sea W							× ×	3	R	tB	31	25^	3- VA	vles L			PLV Ca	ne/Number: ation: r - Kyle Littr	roject Loc nvoice To: TO Energ		ne No:	#103, Midla Phone	n Office	- Permian	e / Branch: mental, Inc ess: "A" Street, B	company N LT Environment A 3300 Normail: haker@l
No. Field ID / Point of Collection Sample Date Time Matrix # of Dollete Time Matrix Dollete Time Date Dollete Time	/ater	WW= Waste Water							3/18	١ -	2		i botti	serve	er of p		44	P -	ZR					147	Bel	Ben	70	
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3									X	X	X	X						 	5		1/24/18		**	***************************************			·····	
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Turnaround Time (Business days) Same Day TAT Level II Std QC Level IV (Full Data Pkg /raw data) Next Day EMERGENCY 7 Day TAT Level III Std QC+ Forms TRRP Level IV UST / RG -411																											***************************************	8
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Next Day EMERGENCY	-					S:	Note			data)	/raw o	ata Pko	(Full C	evel IV		Informa	verable	************		Le			ay TAT	5 Da	s days)	e (Business		San
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3 Day EMERGENCY TRRP Checklist													-411	ST / RG		Γ	s)	.P Form	vel 3 (C	Le			ntract TAT	Cont		Y	EMERGENCY	2 D
TAT Charles Developed to the Late of the Control of		_																cklist	RP Che	Т								I
TAT Starts Day received by Lab, if received by 5:00 pm SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Pallinguished by Sample Custody Must be Documented Below Each Time Samples Change Possession, Including Courier Delivery	26	341734431	TIFE	#	acking a				,	LIVERY	R DEL					ANGE P	ES CH	E SAMPL	ACH TIN	D BELOW I	CUMENT	MUST BE C			by Lab			
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Relinquished by: Date Time: Received By: Custody Seal # Preserved where applicable On Ice Cooler Temp. Thermo. Corr. Fa Custody Seal # Preserved where applicable On Ice Cooler Temp. Thermo. Corr. Fa Solicice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsitive service. Yellow the Client if such loses are due to circumstances beyond the control of Yenco. A minimum phase of \$75 mill be explicitly assumed to the conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsitive service.		L NSI AL	0.2	7	N															5							•	5



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XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 07/28/2018 09:00:00 AM

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

Work Order #: 593926

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		.3
#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)?		N/A
#18 Water VOC samples have zero head	dspace?	N/A
* Must be completed for after-hours de Analyst:	livery of samples prior to placing ir PH Device/Lot#:	n the refrigerator
Checklist completed by:	Brianna Teel Jessica Marnee	Date: 07/30/2018
Checklist reviewed by:	Jessial Phil	Date: 07/30/2018

Jessica Kramer

Analytical Report 594382

for

LT Environmental, Inc.

Project Manager: Adrian Baker
PLU Big Sinks 2-25-3-31 TB

06-AUG-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), 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 (T104704400-18-15)
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)
Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





06-AUG-18

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

Reference: XENCO Report No(s): 594382

PLU Big Sinks 2-25-3-31 TB Project Address: Carlsbad, 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) 594382. 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. 594382 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

Jessian beamer

Project Assistant

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

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Sample Cross Reference 594382



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 2-25-3-31 TB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS05	S	07-27-18 10:45	1 ft	594382-001
SS06	S	07-27-18 12:00	6 In	594382-002
SS07	S	07-27-18 13:15	6 In	594382-003
SS10	S	07-27-18 16:20	6 In	594382-004
SW06	S	07-26-18 13:10	2.5 ft	594382-005

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU Big Sinks 2-25-3-31 TB

Project ID: Report Date: 06-AUG-18 Work Order Number(s): 594382 Date Received: 08/01/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3058909 BTEX by EPA 8021B

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



Certificate of Analysis Summary 594382

LT Environmental, Inc., Arvada, CO

Project Name: PLU Big Sinks 2-25-3-31 TB



Project Id: Contact:

Project Location:

Adrian Baker

Carlsbad, NM

Date Received in Lab: Wed Aug-01-18 01:15 pm

Report Date: 06-AUG-18 **Project Manager:** Jessica Kramer

	Lab Id:	594382-0	001	594382-0	02	594382-0	03	594382-0	004	594382-0	005	
Analysis Requested	Field Id:	SS05		SS06		SS07		SS10		SW06		
Anaiysis Requesieu	Depth:	1- ft		6- In		6- In		6- In		2.5- ft		
	Matrix:	SOIL	,	SOIL		SOIL		SOIL	,	SOIL		
	Sampled:	Jul-27-18	Jul-27-18 10:45		2:00	Jul-27-18 13:15		Jul-27-18 16:20		Jul-26-18 13:10		
BTEX by EPA 8021B	Extracted:	Aug-03-18	Aug-03-18 17:00		17:00	Aug-03-18 17:00		Aug-03-18 17:00		Aug-03-18 17:00		
	Analyzed:	Aug-04-18			09:15	Aug-04-18 (05:06	Aug-04-18	04:46	Aug-04-18	05:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199	
Toluene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199	
Ethylbenzene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199	
m,p-Xylenes		< 0.00398	0.00398	< 0.00399	0.00399	< 0.00398	0.00398	< 0.00399	0.00399	< 0.00398	0.00398	
o-Xylene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199	
Total Xylenes		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199	
Total BTEX		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00199	0.00199	
Inorganic Anions by EPA 300	Extracted:	Aug-03-18 09:30		Aug-03-18 09:30 Aug-03-		Aug-03-18 (Aug-03-18 09:30 Aug-03-18 09:30		Aug-03-18 09:30			
	Analyzed:	Aug-03-18	8		14:03	Aug-03-18	14:09	Aug-03-18	14:16	Aug-03-18	14:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		149	5.01	24.6	4.98	1100	25.0	7.92	4.98	159	5.00	
TPH by SW8015 Mod	Extracted:	Aug-02-18	17:00	Aug-02-18	17:00	Aug-02-18	17:00	Aug-02-18	17:00	Aug-02-18	17:00	
	Analyzed:	Aug-03-18	07:06	Aug-03-18 (07:26	Aug-03-18 07:46		Aug-03-18 08:44		Aug-03-18 09:05		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	
Diesel Range Organics (DRO)		77.3	14.9	<15.0	15.0	753	15.0	<15.0	15.0	50.9	14.9	
Oil Range Hydrocarbons (ORO)		<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	
Total TPH		77.3	14.9	<15.0	15.0	753	15.0	<15.0	15.0	50.9	14.9	

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Weamer





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 2-25-3-31 TB

Soil

Sample Id: **SS05** Matrix:

Date Received:08.01.18 13.15

Lab Sample Id: 594382-001

Date Collected: 07.27.18 10.45

Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: Analyst: SCM

% Moisture:

SCM

Date Prep: 08.03.18 09.30 Basis:

Wet Weight

Seq Number: 3058908

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	149	5.01	mg/kg	08.03.18 13.43		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

08.02.18 17.00 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	08.03.18 07.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	77.3	14.9		mg/kg	08.03.18 07.06		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	08.03.18 07.06	U	1
Total TPH	PHC635	77.3	14.9		mg/kg	08.03.18 07.06		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-135	08.03.18 07.06		
o-Terphenyl		84-15-1	93	%	70-135	08.03.18 07.06		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 2-25-3-31 TB

Soil

Sample Id: **SS05**

Matrix:

Date Received:08.01.18 13.15

Lab Sample Id: 594382-001

Date Collected: 07.27.18 10.45

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ % Moisture:

ALJ Analyst:

Date Prep:

08.03.18 17.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	08.04.18 08.54	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	08.04.18 08.54	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	08.04.18 08.54	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	08.04.18 08.54	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	08.04.18 08.54	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	08.04.18 08.54	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	08.04.18 08.54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	109	%	70-130	08.04.18 08.54		
4-Bromofluorobenzene		460-00-4	105	%	70-130	08.04.18 08.54		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 2-25-3-31 TB

Sample Id: SS06

Matrix: Soil

Date Received:08.01.18 13.15

Lab Sample Id: 594382-002

Date Collected: 07.27.18 12.00

Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

SCM

% Moisture:

Analyst: SCM

Date Prep:

08.03.18 09.30

Basis:

Wet Weight

Seq Number: 3058908

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24.6	4.98	mg/kg	08.03.18 14.03		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 08.02.18 17.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.03.18 07.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	08.03.18 07.26	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.03.18 07.26	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	08.03.18 07.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	90	%	70-135	08.03.18 07.26		
o-Terphenyl		84-15-1	83	%	70-135	08.03.18 07.26		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 2-25-3-31 TB

Soil

Sample Id: SS06

Matrix:

Date Received:08.01.18 13.15

Lab Sample Id: 594382-002

Date Collected: 07.27.18 12.00

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

Analyst:

ALJ ALJ

Date Prep: 08.03.18 17.00

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.04.18 09.15	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.04.18 09.15	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.04.18 09.15	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	08.04.18 09.15	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.04.18 09.15	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.04.18 09.15	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.04.18 09.15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	70-130	08.04.18 09.15		
1,4-Difluorobenzene		540-36-3	109	%	70-130	08.04.18 09.15		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 2-25-3-31 TB

Sample Id: **SS07**

Matrix:

Date Received:08.01.18 13.15

Lab Sample Id: 594382-003

Soil Date Collected: 07.27.18 13.15

Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

SCM

% Moisture:

SCM Analyst:

Date Prep:

08.03.18 09.30

Basis:

Wet Weight

Seq Number: 3058908

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 25.0 08.03.18 14.09 5 1100 mg/kg

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech:

ARM

% Moisture:

ARM Analyst:

08.02.18 17.00 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	08.03.18 07.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	753	15.0		mg/kg	08.03.18 07.46		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.03.18 07.46	U	1
Total TPH	PHC635	753	15.0		mg/kg	08.03.18 07.46		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	08.03.18 07.46		
o-Terphenyl		84-15-1	118	%	70-135	08.03.18 07.46		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 2-25-3-31 TB

Sample Id: **SS07** Lab Sample Id: 594382-003

Soil

Date Received:08.01.18 13.15

Date Collected: 07.27.18 13.15

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

08.03.18 17.00 Date Prep:

Matrix:

% Moisture:

Basis:

Wet Weight

Analyst:

ALJ

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	08.04.18 05.06	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	08.04.18 05.06	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	08.04.18 05.06	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	08.04.18 05.06	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	08.04.18 05.06	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	08.04.18 05.06	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	08.04.18 05.06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	08.04.18 05.06		
4-Bromofluorobenzene		460-00-4	100	%	70-130	08.04.18 05.06		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 2-25-3-31 TB

Soil

Sample Id: SS10

Matrix:

Date Received:08.01.18 13.15

Lab Sample Id: 594382-004

Date Collected: 07.27.18 16.20

Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: Analyst: SCM SCM

Date Prep:

08.03.18 09.30

% Moisture: Basis:

Wet Weight

Seq Number: 3058908

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.92	4.98	mg/kg	08.03.18 14.16		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep:

08.02.18 17.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.03.18 08.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	08.03.18 08.44	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.03.18 08.44	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	08.03.18 08.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-135	08.03.18 08.44		
o-Terphenyl		84-15-1	90	%	70-135	08.03.18 08.44		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 2-25-3-31 TB

Soil

Sample Id: SS10

Matrix:

Date Received:08.01.18 13.15

Lab Sample Id: 594382-004

Date Collected: 07.27.18 16.20

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep:

08.03.18 17.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.04.18 04.46	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.04.18 04.46	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.04.18 04.46	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	08.04.18 04.46	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.04.18 04.46	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.04.18 04.46	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.04.18 04.46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	104	%	70-130	08.04.18 04.46		
1,4-Difluorobenzene		540-36-3	107	%	70-130	08.04.18 04.46		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 2-25-3-31 TB

Soil

Sample Id: **SW06**

Date Received:08.01.18 13.15

Lab Sample Id: 594382-005 Date Collected: 07.26.18 13.10 Sample Depth: 2.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

SCM Analyst:

Date Prep:

Matrix:

08.03.18 09.30

Basis:

Wet Weight

Seq Number: 3058908

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	159	5.00	mg/kg	08.03.18 14.23		1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

08.02.18 17.00 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	08.03.18 09.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	50.9	14.9		mg/kg	08.03.18 09.05		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	08.03.18 09.05	U	1
Total TPH	PHC635	50.9	14.9		mg/kg	08.03.18 09.05		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	86	%	70-135	08.03.18 09.05		
o-Terphenyl		84-15-1	88	%	70-135	08.03.18 09.05		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 2-25-3-31 TB

Sample Id: **SW06** Matrix: Soil Date Received:08.01.18 13.15

Lab Sample Id: 594382-005

Date Collected: 07.26.18 13.10

Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

ALJ Analyst:

Date Prep:

08.03.18 17.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	08.04.18 05.28	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	08.04.18 05.28	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	08.04.18 05.28	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	08.04.18 05.28	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	08.04.18 05.28	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	08.04.18 05.28	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	08.04.18 05.28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	08.04.18 05.28		
4-Bromofluorobenzene		460-00-4	102	%	70-130	08.04.18 05.28		



Flagging Criteria



Page 190 of 280

- 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 594382

LT Environmental, Inc.

PLU Big Sinks 2-25-3-31 TB

LCSD

259

Analytical Method: Inorganic Anions by EPA 300

3058908

7659700-1-BLK

Matrix: Solid

Prep Method: Date Prep: E300P 08.03.18

Seq Number: MB Sample Id:

LCS Sample Id:

104

LCSD Sample Id: 7659700-1-BSD

Parameter

MR

7659700-1-BKS LCS LCS

%RPD RPD Limit Units

Analysis Flag

Chloride

Spike Result Amount

< 5.00

Result %Rec

260

LCSD %Rec Result

104

Limits 90-110

0 20 mg/kg

Date 08.03.18 10:07

Analytical Method: Inorganic Anions by EPA 300

3058908

Matrix: Soil

Spike

249

Amount

250

E300P Prep Method: Date Prep:

08.03.18

Parent Sample Id:

594371-001

MS Sample Id: 594371-001 S MSD Sample Id:

594371-001 SD

Parameter

Seq Number:

MS **MSD**

MSD Limits

87

%RPD RPD Limit Units

Analysis Flag

Chloride

Parent Result

MS Result

%Rec Result %Rec

Date

1070 83 1080

90-110

20 mg/kg 08.03.18 11:29

X

Parent Sample Id:

Analytical Method: Inorganic Anions by EPA 300

Prep Method:

E300P

Seq Number:

3058908

Matrix: Soil

594381-003 S

Date Prep:

20

08.03.18

594381-003

MS Sample Id:

MSD MSD

Limits

MSD Sample Id: 594381-003 SD %RPD RPD Limit Units

mg/kg

Analysis

08.03.18 13:02

Parameter

Chloride

Parent Spike Result Amount 205

MB

6.36

3.61

98

Result

864

MS MS Result %Rec

LCS Sample Id:

LCS

466

104

Result %Rec 463

103 90-110

Flag Date

MB Sample Id:

Parameter

7659680-1-BLK

Analytical Method: TPH by SW8015 Mod Seq Number: 3058802

251

Matrix: Solid

LCS

Prep Method: Date Prep:

LCSD Sample Id:

%RPD RPD Limit Units

TX1005P

08.02.18

Analysis Flag Date

Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)

1000 1000

Spike

Result Amount 975 982 %Rec Result 98 98

%Rec 996 1010

7659680-1-BKS

70-135 100 70-135

2 20 3 20

mg/kg

08.03.18 03:27 08.03.18 03:27

7659680-1-BSD

Surrogate 1-Chlorooctane

o-Terphenyl

MB %Rec 96

MB Flag

LCS %Rec Flag

120

103

LCS

LCSD

101 LCSD

%Rec

124

102

LCSD

LCSD

Flag

Limits

Limits

70-135

70-135

%

%

mg/kg Units Analysis

Date 08.03.18 03:27

08.03.18 03:27

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 594382

LT Environmental, Inc.

PLU Big Sinks 2-25-3-31 TB

Analytical Method: TPH by SW8015 Mod

3058802 Matrix: Soil

TX1005P Prep Method:

Date Prep: 08.02.18

MS Sample Id: 594381-001 S Parent Sample Id: 594381-001

MSD Sample Id: 594381-001 SD

- III-1-1-1 P-1-1-1 P-1-1-1	_								•			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	15.8	999	857	84	839	83	70-135	2	20	mg/kg	08.03.18 04:26	
Diesel Range Organics (DRO)	4.94	999	885	88	879	88	70-135	1	20	mg/kg	08.03.18 04:26	
Surrogate				IS Rec	MS Flag	MSD %Rec			imits	Units	Analysis Date	
1-Chlorooctane			1	25		122		7	0-135	%	08.03.18 04:26	
o-Terphenyl			ç	91		94		7	0-135	%	08.03.18 04:26	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3058909

SW5030B Prep Method:

Date Prep: 08.03.18

Prep Method:

SW5030B

Matrix: Solid LCS Sample Id: 7659751-1-BKS LCSD Sample Id: 7659751-1-BSD MB Sample Id: 7659751-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date
Benzene	< 0.00200	0.0998	0.102	102	0.102	102	70-130	0	35	mg/kg	08.04.18 02:40
Toluene	< 0.00200	0.0998	0.101	101	0.101	101	70-130	0	35	mg/kg	08.04.18 02:40
Ethylbenzene	< 0.00200	0.0998	0.105	105	0.106	106	70-130	1	35	mg/kg	08.04.18 02:40
m,p-Xylenes	< 0.00399	0.200	0.210	105	0.214	107	70-130	2	35	mg/kg	08.04.18 02:40
o-Xylene	< 0.00200	0.0998	0.101	101	0.102	102	70-130	1	35	mg/kg	08.04.18 02:40
-	MB	MB	L	CS 1	LCS	LCSI) LCS	D L	imits	Units	Analysis

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag	23111145	01110	Date
1,4-Difluorobenzene	106		123		109		70-130	%	08.04.18 02:40
4-Bromofluorobenzene	91		104		102		70-130	%	08.04.18 02:40

Analytical Method: BTEX by EPA 8021B

Seq Number: 3058909 Matrix: Soil Date Prep: 08.03.18 MS Sample Id: 594382-004 S MSD Sample Id: 594382-004 SD Parent Sample Id: 594382-004

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.0910	91	0.0863	85	70-130	5	35	mg/kg	08.04.18 03:22
Toluene	0.000369	0.100	0.0895	89	0.0850	84	70-130	5	35	mg/kg	08.04.18 03:22
Ethylbenzene	< 0.00200	0.100	0.0936	94	0.0894	89	70-130	5	35	mg/kg	08.04.18 03:22
m,p-Xylenes	< 0.00401	0.200	0.187	94	0.179	89	70-130	4	35	mg/kg	08.04.18 03:22
o-Xylene	< 0.00200	0.100	0.0892	89	0.0858	85	70-130	4	35	mg/kg	08.04.18 03:22

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	128		127		70-130	%	08.04.18 03:22
4-Bromofluorobenzene	103		102		70-130	%	08.04.18 03:22

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

Received by OCD: 9/1/2025 3:46:41 PM



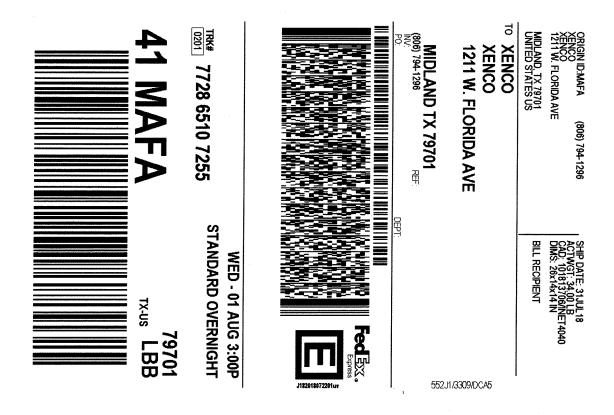
Setting the Standard since 1990 Stafford, Texas (281-240-4200) Dallas Texas (214-902-0300)

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Phoenix, Arizona (480-355-0900)

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XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 08/01/2018 01:15:00 PM

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

Work Order #: 594382

Temperature Measuring device used: R8

Sample Receipt Checklist	Comments
	3.2
?	Yes
	Yes
tainer/ cooler?	N/A
s?	N/A
	N/A
	Yes
	No
ished/ received?	Yes
e labels/matrix?	Yes
	Yes
	Yes
	Yes
	Yes
ed test(s)?	Yes
e?	Yes
	N/A
space?	N/A
livery of samples prior to placing in	n the refrigerator
Brianna Teel Jessica Warner	Date: 08/02/2018 Date: 08/02/2018
	ed test(s)? espace? livery of samples prior to placing in PH Device/Lot#: Brianna Teel

Analytical Report 594383

for

LT Environmental, Inc.

Project Manager: Adrian Baker
PLU Big Sinks 3-25-31 TB

06-AUG-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), 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 (T104704400-18-15)
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)
Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





06-AUG-18

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

Reference: XENCO Report No(s): 594383

PLU Big Sinks 3-25-31 TB Project Address: Carlsbad, 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) 594383. 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. 594383 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

Jessian beamer

Project Assistant

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Sample Cross Reference 594383



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31 TB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS08	S	07-27-18 16:00	1 ft	594383-001
SS09	S	07-27-18 16:10	1.5 ft	594383-002

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU Big Sinks 3-25-31 TB

Project ID: Report Date: 06-AUG-18 Work Order Number(s): 594383 Date Received: 08/01/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3058909 BTEX by EPA 8021B

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



Certificate of Analysis Summary 594383

LT Environmental, Inc., Arvada, CO

Project Name: PLU Big Sinks 3-25-31 TB



Project Id: Contact:

Project Location:

Adrian Baker

Carlsbad, NM

Date Received in Lab: Wed Aug-01-18 01:15 pm

Report Date: 06-AUG-18 **Project Manager:** Jessica Kramer

						1	1	
	Lab Id:	594383-0	001	594383-0	002			
Analysis Requested	Field Id:	SS08		SS09				
Analysis Requesieu	Depth:	1- ft		1.5- f	t			
	Matrix:	SOIL		SOIL	,			
	Sampled:	Jul-27-18 1	6:00	Jul-27-18	16:10			
BTEX by EPA 8021B	Extracted:	Aug-03-18	17:00	Aug-03-18	17:00			
	Analyzed:	Aug-04-18	05:48	Aug-04-18	06:09			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Benzene	•	< 0.00202	0.00202	< 0.00201	0.00201			
Toluene		< 0.00202	0.00202	< 0.00201	0.00201			
Ethylbenzene		0.00398	0.00202	0.00644	0.00201			
m,p-Xylenes		0.0216	0.00403	0.0101	0.00402			
o-Xylene		0.00257	0.00202	0.0163	0.00201			
Total Xylenes		0.0242	0.00202	0.0264	0.00201			
Total BTEX		0.0282	0.00202	0.0328	0.00201			
Inorganic Anions by EPA 300	Extracted:	Aug-03-18	11:15	Aug-03-18	11:15			
	Analyzed:	Aug-03-18	15:23	Aug-03-18	15:29			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Chloride		40.7	5.02	393	4.96			
TPH by SW8015 Mod	Extracted:	Aug-04-18	09:00	Aug-04-18	09:00			
	Analyzed:	Aug-04-18	19:58	Aug-04-18	20:17			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)		73.8	15.0	82.4	15.0			
Diesel Range Organics (DRO)		2510	15.0	605	15.0			
Oil Range Hydrocarbons (ORO)		43.8	15.0	20.4	15.0			
Total TPH		2630	15.0	708	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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Mannee

Jessica Kramer Project Assistant





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31 TB

Soil

Sample Id: SS08

Matrix:

Date Received:08.01.18 13.15

Lab Sample Id: 594383-001

Date Collected: 07.27.18 16.00

Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

ate Concetted. 07.27.18 10.00

Prep Method: E300P

COM

% Moisture:

Tech: Analyst: SCM SCM

Date Prep:

08.03.18 11.15

Basis:

Wet Weight

Seq Number: 3058919

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 40.7
 5.02
 mg/kg
 08.03.18 15.23
 1

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech:

ARM

08.04.18 09.00

% Moisture:

Basis:

Wet Weight

Analyst: ARM Seq Number: 3058982

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	73.8	15.0		mg/kg	08.04.18 19.58		1
Diesel Range Organics (DRO)	C10C28DRO	2510	15.0		mg/kg	08.04.18 19.58		1
Oil Range Hydrocarbons (ORO)	PHCG2835	43.8	15.0		mg/kg	08.04.18 19.58		1
Total TPH	PHC635	2630	15.0		mg/kg	08.04.18 19.58		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-135	08.04.18 19.58		
o-Terphenyl		84-15-1	128	%	70-135	08.04.18 19.58		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31 TB

Soil

Sample Id: **SS08**

Matrix:

Date Received:08.01.18 13.15

Lab Sample Id: 594383-001

Date Collected: 07.27.18 16.00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

Analyst:

ALJ

Date Prep:

08.03.18 17.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	08.04.18 05.48	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	08.04.18 05.48	U	1
Ethylbenzene	100-41-4	0.00398	0.00202		mg/kg	08.04.18 05.48		1
m,p-Xylenes	179601-23-1	0.0216	0.00403		mg/kg	08.04.18 05.48		1
o-Xylene	95-47-6	0.00257	0.00202		mg/kg	08.04.18 05.48		1
Total Xylenes	1330-20-7	0.0242	0.00202		mg/kg	08.04.18 05.48		1
Total BTEX		0.0282	0.00202		mg/kg	08.04.18 05.48		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	108	%	70-130	08.04.18 05.48		
4-Bromofluorobenzene		460-00-4	129	%	70-130	08.04.18 05.48		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31 TB

Sample Id: **SS09**

Matrix: Soil Date Received:08.01.18 13.15

Lab Sample Id: 594383-002

Date Collected: 07.27.18 16.10

Sample Depth: 1.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: SCM

SCM

Date Prep: 08.03.18 11.15 Basis:

Wet Weight

Seq Number: 3058919

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 08.03.18 15.29 393 4.96 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech:

ARM

% Moisture:

ARM Analyst:

08.04.18 09.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	82.4	15.0		mg/kg	08.04.18 20.17		1
Diesel Range Organics (DRO)	C10C28DRO	605	15.0		mg/kg	08.04.18 20.17		1
Oil Range Hydrocarbons (ORO)	PHCG2835	20.4	15.0		mg/kg	08.04.18 20.17		1
Total TPH	PHC635	708	15.0		mg/kg	08.04.18 20.17		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-135	08.04.18 20.17		
o-Terphenyl		84-15-1	76	%	70-135	08.04.18 20.17		





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31 TB

Soil

Sample Id: **SS09** Matrix:

Date Received:08.01.18 13.15

Lab Sample Id: 594383-002

Date Collected: 07.27.18 16.10

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

Analyst:

ALJ

08.03.18 17.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	08.04.18 06.09	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	08.04.18 06.09	U	1
Ethylbenzene	100-41-4	0.00644	0.00201		mg/kg	08.04.18 06.09		1
m,p-Xylenes	179601-23-1	0.0101	0.00402		mg/kg	08.04.18 06.09		1
o-Xylene	95-47-6	0.0163	0.00201		mg/kg	08.04.18 06.09		1
Total Xylenes	1330-20-7	0.0264	0.00201		mg/kg	08.04.18 06.09		1
Total BTEX		0.0328	0.00201		mg/kg	08.04.18 06.09		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	128	%	70-130	08.04.18 06.09		
1,4-Difluorobenzene		540-36-3	99	%	70-130	08.04.18 06.09		



Flagging Criteria



Page 205 of 280

- 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:

MB Sample Id:

QC Summary 594383

LT Environmental, Inc.

PLU Big Sinks 3-25-31 TB

Analytical Method: Inorganic Anions by EPA 300

3058919 Matrix: Solid

MR

LCS Sample Id: 7659702-1-BKS 7659702-1-BLK

LCS

E300P Prep Method:

Date Prep: 08.03.18

LCSD Sample Id: 7659702-1-BSD

E300P

TX1005P

Flag

Prep Method:

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

08.03.18 14:49 Chloride < 5.00 250 268 107 264 106 90-110 2 20 mg/kg

LCS

Analytical Method: Inorganic Anions by EPA 300

E300P Prep Method: Seq Number: 3058919 Matrix: Soil 08.03.18 Date Prep:

Parent Sample Id: 594384-002 MS Sample Id: 594384-002 S MSD Sample Id: 594384-002 SD

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

Chloride 729 250 957 91 988 104 90-110 3 20 mg/kg 08.03.18 15:09

Analytical Method: Inorganic Anions by EPA 300

Prep Method: 3058919 Matrix: Soil Seq Number: Date Prep: 08.03.18

MS Sample Id: 594393-005 S MSD Sample Id: 594393-005 SD 594393-005 Parent Sample Id:

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec 08.03.18 16:43 Chloride 973 250 1220 99 1210 95 90-110 20 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number: 3058982 Matrix: Solid Date Prep: 08.04.18

7659797-1-BKS LCSD Sample Id: 7659797-1-BSD 7659797-1-BLK LCS Sample Id: MB Sample Id:

%RPD RPD Limit Units MB Spike LCS LCS LCSD Limits Analysis **LCSD Parameter** Result %Rec Date Result Amount %Rec Result Gasoline Range Hydrocarbons (GRO) 4.91 965 97 70-135 7 20 08.04.18 12:04 1000 901 90 mg/kg 08.04.18 12:04 1010 101 937 70-135 7 20 Diesel Range Organics (DRO) 1000 94 2.55 mg/kg

MB LCS LCSD MB LCS LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 1-Chlorooctane 96 124 125 70-135 % 08.04.18 12:04 108 08.04.18 12:04 o-Terphenyl 101 110 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 594383

LT Environmental, Inc.

PLU Big Sinks 3-25-31 TB

Analytical Method: TPH by SW8015 Mod

Seq Number: 3058982 Matrix: Soil

MS Sample Id: 594450-009 S Parent Sample Id: 594450-009

TX1005P Prep Method:

Date Prep: 08.04.18

MSD Sample Id: 594450-009 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)	15.7	998	882	87	881	87	70-135	0	20	mg/kg	08.04.18 13:03	
Diesel Range Organics (DRO)	3.05	998	938	94	984	98	70-135	5	20	mg/kg	08.04.18 13:03	
Surrogate			M 9/ I		MS	MSD			Limits	Units	Analysis	

Flag %Rec Flag 1-Chlorooctane 121 127 70-135 08.04.18 13:03 o-Terphenyl 91 101 70-135 08.04.18 13:03

Analytical Method: BTEX by EPA 8021B

Seq Number: 3058909

Matrix: Solid

SW5030B Prep Method: Date Prep: 08.03.18

Flag

Flag

LCS Sample Id: 7659751-1-BKS LCSD Sample Id: 7659751-1-BSD MB Sample Id: 7659751-1-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	0.0998	0.102	102	0.102	102	70-130	0	35	mg/kg	08.04.18 02:40
Toluene	< 0.00200	0.0998	0.101	101	0.101	101	70-130	0	35	mg/kg	08.04.18 02:40
Ethylbenzene	< 0.00200	0.0998	0.105	105	0.106	106	70-130	1	35	mg/kg	08.04.18 02:40
m,p-Xylenes	< 0.00399	0.200	0.210	105	0.214	107	70-130	2	35	mg/kg	08.04.18 02:40
o-Xylene	< 0.00200	0.0998	0.101	101	0.102	102	70-130	1	35	mg/kg	08.04.18 02:40
C	MB	MB	L	CS 1	LCS	LCSI) LCS	D L	imits	Units	Analysis

Surrogate Flag Flag %Rec Flag %Rec Date %Rec 08.04.18 02:40 1,4-Difluorobenzene 106 123 109 70-130 % 08.04.18 02:40 4-Bromofluorobenzene 91 104 102 70-130 %

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B Seq Number: 3058909 Matrix: Soil Date Prep: 08.03.18 MS Sample Id: 594382-004 S MSD Sample Id: 594382-004 SD Parent Sample Id: 594382-004

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.0910	91	0.0863	85	70-130	5	35	mg/kg	08.04.18 03:22
Toluene	0.000369	0.100	0.0895	89	0.0850	84	70-130	5	35	mg/kg	08.04.18 03:22
Ethylbenzene	< 0.00200	0.100	0.0936	94	0.0894	89	70-130	5	35	mg/kg	08.04.18 03:22
m,p-Xylenes	< 0.00401	0.200	0.187	94	0.179	89	70-130	4	35	mg/kg	08.04.18 03:22
o-Xylene	< 0.00200	0.100	0.0892	89	0.0858	85	70-130	4	35	mg/kg	08.04.18 03:22

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	128		127		70-130	%	08.04.18 03:22
4-Bromofluorobenzene	103		102		70-130	%	08.04.18 03:22

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

Received by OCD: 9/1/2025 3:46:41 PM



Setting the Standard since 1990 Stafford, Texas (281-240-4200) Dallas Texas (214-902-0300)

CHAIN OF CUSTODY

Page 1 Of 1

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

Phoenix, Arizona (480-355-0900)

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Project Contact: Adrian Baker												FOA	1/2	3 1						OW =Ocean/So WI = Wipe	₃a Water
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Isoses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for an owner of the cost of samples are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be involved at \$5 per sample. These terms



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XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 08/01/2018 01:15:00 PM

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

Work Order #: 594383

Temperature Measuring device used: R8

Work Order #. 00 1000		
	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		3.2
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping cor	tainer/ 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	iished/ received?	Yes
#10 Chain of Custody agrees with sampl	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 indicate	ed test(s)?	Yes
#16 All samples received within hold time	e?	Yes
#17 Subcontract of sample(s)?		N/A
#18 Water VOC samples have zero head	space?	N/A
* Must be completed for after-hours de Analyst:	livery of samples prior to placing	in the refrigerator
Checklist completed by:	Brianna Teel	Date: <u>08/02/2018</u>
Checklist reviewed by:	Jessica Kramer	Date: 08/02/2018

Jessica Kramer

Analytical Report 601965

for

LT Environmental, Inc.

Project Manager: Adrian Baker
PLU Big Sinks 3-25-31

17-OCT-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-27), 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 (T104704221-18-13)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)
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) Xenco-Lakeland: Florida (E84098)





17-OCT-18

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

Reference: XENCO Report No(s): 601965

PLU Big Sinks 3-25-31

Project Address: Carlsbad, 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) 601965. 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. 601965 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 Vramer

Project Assistant

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

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Sample Cross Reference 601965



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS11	S	10-09-18 11:15	6 In	601965-001
SS12	S	10-09-18 11:35	6 In	601965-002
SS13	S	10-09-18 12:05	6 In	601965-003

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU Big Sinks 3-25-31

Project ID: Report Date: 17-OCT-18
Work Order Number(s): 601965
Date Received: 10/10/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3066632 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data

confirmed by re-analysis.

Samples affected are: 601915-008 S,601915-008 SD.

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

Batch: LBA-3066646 BTEX by EPA 8021B

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



Certificate of Analysis Summary 601965

LT Environmental, Inc., Arvada, CO Project Name: PLU Big Sinks 3-25-31



Project Id:

Contact: Adrian Baker
Project Location: Carlsbad, NM

Date Received in Lab: Wed Oct-10-18 01:55 pm

Report Date: 17-OCT-18 **Project Manager:** Jessica Kramer

								1	1
	Lab Id:	601965-0	001	601965-0	02	601965-0	03		
Analysis Requested	Field Id:	SS11		SS12		SS13			
mulysis Requesicu	Depth:	6- In		6- In		6- In			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Oct-09-18 1	11:15	Oct-09-18 1	1:35	Oct-09-18 1	2:05		
BTEX by EPA 8021B	Extracted:	Oct-14-18 1	17:00	Oct-16-18 1	4:00	Oct-16-18 1	4:00		
	Analyzed:	Oct-16-18 1	15:07	Oct-16-18 1	9:10	Oct-16-18 1	9:31		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.0100	0.0100	< 0.00202	0.00202	< 0.00199	0.00199		
Toluene		< 0.0100	0.0100	< 0.00202	0.00202	< 0.00199	0.00199		
Ethylbenzene		< 0.0100	0.0100	< 0.00202	0.00202	< 0.00199	0.00199		
m,p-Xylenes		< 0.0200	0.0200	< 0.00403	0.00403	< 0.00398	0.00398		
o-Xylene		< 0.0100	0.0100	< 0.00202	0.00202	< 0.00199	0.00199		
Total Xylenes		< 0.0100	0.0100	< 0.00202	0.00202	< 0.00199	0.00199		
Total BTEX		< 0.0100	0.0100	< 0.00202	0.00202	< 0.00199	0.00199		
Inorganic Anions by EPA 300	Extracted:	Oct-16-18 (09:00	Oct-16-18 09:00		Oct-16-18 09:00			
	Analyzed:	Oct-16-18 1	14:00	Oct-16-18 1	4:05	Oct-16-18 1	4:28		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		<4.98	4.98	<4.96	4.96	< 5.00	5.00		
TPH by SW8015 Mod	Extracted:	Oct-15-18 1	16:00	Oct-15-18 1	6:00	Oct-15-18 1	6:00		
	Analyzed:	Oct-15-18 2	22:58	Oct-15-18 2	3:16	Oct-15-18 2	3:35		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		17.7	15.0	25.8	15.0	<14.9	14.9		
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9		
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9		
Total TPH		17.7	15.0	25.8	15.0	16.1	14.9		

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Jessica Kramer

Jessica Kramer Project Assistant





LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31

Sample Id: **SS11** Lab Sample Id: 601965-001 Matrix: Soil Date Received:10.10.18 13.55

Date Collected: 10.09.18 11.15

Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

% Moisture:

Tech: SCM

Wet Weight

CHE Analyst:

10.16.18 09.00 Date Prep:

Basis:

Seq Number: 3066546

Parameter	Cas Number	Result	RL	Uı	Jnits	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg	g/kg	10.16.18 14.00	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

10.15.18 16.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	17.7	15.0		mg/kg	10.15.18 22.58		1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	10.15.18 22.58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.15.18 22.58	U	1
Total TPH	PHC635	17.7	15.0		mg/kg	10.15.18 22.58		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	90	%	70-135	10.15.18 22.58		
o-Terphenyl		84-15-1	93	%	70-135	10.15.18 22.58		



Certificate of Analytical Results 601965



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31

10.14.18 17.00

Sample Id: SS11 Matrix: Soil

Date Received:10.10.18 13.55

Lab Sample Id: 601965-001 Date Collected: 10.09.18 11.15

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ Date Prep:

Basis: Wet Weight

Seq Number: 3066632

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0100	0.0100		mg/kg	10.16.18 15.07	U	1
Toluene	108-88-3	< 0.0100	0.0100		mg/kg	10.16.18 15.07	U	1
Ethylbenzene	100-41-4	< 0.0100	0.0100		mg/kg	10.16.18 15.07	U	1
m,p-Xylenes	179601-23-1	< 0.0200	0.0200		mg/kg	10.16.18 15.07	U	1
o-Xylene	95-47-6	< 0.0100	0.0100		mg/kg	10.16.18 15.07	U	1
Total Xylenes	1330-20-7	< 0.0100	0.0100		mg/kg	10.16.18 15.07	U	1
Total BTEX		< 0.0100	0.0100		mg/kg	10.16.18 15.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	113	%	70-130	10.16.18 15.07		
4-Bromofluorobenzene		460-00-4	94	%	70-130	10.16.18 15.07		



Certificate of Analytical Results 601965



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31

Sample Id: SS12

Matrix: Soil

Date Received:10.10.18 13.55

Lab Sample Id: 601965-002

Date Collected: 10.09.18 11.35

Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: CHE

Date Prep: 10.16.18 09.00

Basis:

Wet Weight

Seq Number: 3066546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	10.16.18 14.05	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 10.15.18 16.00

Basis: Wet Weight

Seq Number: 3066670

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	25.8	15.0		mg/kg	10.15.18 23.16		1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	10.15.18 23.16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	10.15.18 23.16	U	1
Total TPH	PHC635	25.8	15.0		mg/kg	10.15.18 23.16		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	105	%	70-135	10.15.18 23.16		
o-Terphenyl		84-15-1	108	%	70-135	10.15.18 23.16		



Lab Sample Id: 601965-002

Certificate of Analytical Results 601965



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31

Soil

Sample Id: **SS12**

Date Received:10.10.18 13.55

Date Collected: 10.09.18 11.35

Matrix:

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ % Moisture:

ALJ Analyst:

10.16.18 14.00 Date Prep:

Basis: Wet Weight

Seq Number: 3066646

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	10.16.18 19.10	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	10.16.18 19.10	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	10.16.18 19.10	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	10.16.18 19.10	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	10.16.18 19.10	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	10.16.18 19.10	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	10.16.18 19.10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	70-130	10.16.18 19.10		
1,4-Difluorobenzene		540-36-3	111	%	70-130	10.16.18 19.10		



Certificate of Analytical Results 601965



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31

Sample Id: **SS13** Matrix:

Soil

10.15.18 16.00

Date Received:10.10.18 13.55

Lab Sample Id: 601965-003

Date Collected: 10.09.18 12.05

Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

% Moisture:

Tech: Analyst: SCM

CHE

Date Prep: 10.16.18 09.00 Basis:

Wet Weight

Seq Number: 3066546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	10 16 18 14 28	II	1

Analytical Method: TPH by SW8015 Mod

ARM

Tech:

ARM

Analyst: Seq Number: 3066670 Prep Method: TX1005P

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	10.15.18 23.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	10.15.18 23.35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9		mg/kg	10.15.18 23.35	U	1
Total TPH	PHC635	16.1	14.9		mg/kg	10.15.18 23.35		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Date Prep:

1-Chlorooctane 111-85-3 91 70-135 10.15.18 23.35 o-Terphenyl 84-15-1 94 70-135 10.15.18 23.35



Certificate of Analytical Results 601965



LT Environmental, Inc., Arvada, CO

PLU Big Sinks 3-25-31

Sample Id: **SS13**

Lab Sample Id: 601965-003

Soil Date Collected: 10.09.18 12.05

Matrix:

Date Received:10.10.18 13.55

Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

ALJ

Prep Method: SW5030B

% Moisture:

ALJ Analyst: 10.16.18 14.00 Date Prep:

Basis: Wet Weight

Seq Number: 3066646

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.16.18 19.31	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.16.18 19.31	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.16.18 19.31	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.16.18 19.31	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.16.18 19.31	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.16.18 19.31	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.16.18 19.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	98	%	70-130	10.16.18 19.31		
1,4-Difluorobenzene		540-36-3	126	%	70-130	10.16.18 19.31		



Flagging Criteria



Page 222 of 280

- 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 601965

LT Environmental, Inc.

PLU Big Sinks 3-25-31

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3066546

Matrix: Solid

Prep Method: Date Prep: E300P

101

10.16.18

MB Sample Id:

7664185-1-BLK

LCS Sample Id: 7664185-1-BKS

LCSD Sample Id: 7664185-1-BSD %RPD RPD Limit Units

Analysis

Parameter

Chloride

MR Spike Result Amount < 5.00

LCS LCS Result %Rec 252

LCSD LCSD %Rec Result

249

100 90-110

Limits

20

Date 10.16.18 12:17 Flag

Analytical Method: Inorganic Anions by EPA 300 3066546

Matrix: Soil

Prep Method: Date Prep:

E300P

10.16.18

Seq Number: Parent Sample Id:

601964-003

MS Sample Id: 601964-003 S

MSD Sample Id:

601964-003 SD

Parameter

MS MS Result

MSD

MSD

Limits

%RPD RPD Limit Units

mg/kg

mg/kg

mg/kg

Analysis

Chloride

Spike Parent Result Amount 552 249

815

%Rec 106

Result 806

%Rec 102 90-110 20

Date

10.16.18 12:34

Flag

Analytical Method: Inorganic Anions by EPA 300

249

250

Matrix: Soil

105

Prep Method:

E300P

Seq Number:

3066546

Date Prep:

10.16.18

Parent Sample Id:

601966-001

MS Sample Id:

601966-001 S

278

7664243-1-BKS

MSD

%RPD RPD Limit Units

MSD Sample Id: 601966-001 SD

Parameter

Parent Spike Result Amount

28.0

MS MS Result %Rec

290

MSD Result

Limits %Rec 90-110 100

4

Analysis Flag Date

Chloride

Analytical Method: TPH by SW8015 Mod Seq Number:

3066670 7664243-1-BLK

Matrix: Solid

LCS

%Rec

LCSD

%Rec

%Rec

118

116

Prep Method: Date Prep: LCSD Sample Id:

%RPD RPD Limit Units

20

TX1005P 10.15.18

Date

10.16.18 14:17

Analysis

Parameter Gasoline Range Hydrocarbons (GRO)

Diesel Range Organics (DRO)

< 8.00 < 8.13

MB

Result

1000 1000

Spike

Amount

889 89 97 967

90

LCS Sample Id:

LCS

Result

874 981

Flag

LCSD

Result

70-135 87 70-135 98

2 20 1

70-135

70-135

mg/kg

10.15.18 19:53 10.15.18 19:53

7664243-1-BSD

Flag

Surrogate

1-Chlorooctane

o-Terphenyl

MB Sample Id:

MB %Rec 98

102

LCS MB Flag %Rec 114

LCS

LCSD LCSD

Limits

Flag

20 Limits

mg/kg Units

%

%

Analysis

Date 10.15.18 19:53 10.15.18 19:53

MS/MSD Percent Recovery Relative Percent Difference

LCS/LCSD Recovery

Log Difference

[D] = 100*(C-A) / B[D] = 100 * (C) / [B]

RPD = 200* | (C-E) / (C+E) |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 601965

LT Environmental, Inc.

PLU Big Sinks 3-25-31

Analytical Method: TPH by SW8015 Mod

3066670 Matrix: Soil Date Prep:

TX1005P Prep Method: 10.15.18

Parent Sample Id: 601964-001 MS Sample Id: 601964-001 S

MSD Sample Id: 601964-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	908	998	1620	71	1570	66	70-135	3	20	mg/kg	10.16.18 09:15	X
Diesel Range Organics (DRO)	13700	998	13100	0	12600	0	70-135	4	20	mg/kg	10.16.18 09:15	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		95		70-135	%	10.16.18 09:15
o-Terphenyl	90		101		70-135	%	10.16.18 09:15

Analytical Method: BTEX by EPA 8021B

3066632

Matrix: Solid

Prep Method:

SW5030B

Seq Number: MB Sample Id:

Seq Number:

7664300-1-BLK

LCS Sample Id: 7664300-1-BKS

Date Prep: LCSD Sample Id: 7664300-1-BSD

10.14.18

Flag

Flag

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date
Benzene	< 0.0100	0.500	0.601	120	0.600	120	70-130	0	35	mg/kg	10.16.18 05:07
Toluene	< 0.00228	0.500	0.487	97	0.490	98	70-130	1	35	mg/kg	10.16.18 05:07
Ethylbenzene	< 0.0100	0.500	0.574	115	0.569	114	70-130	1	35	mg/kg	10.16.18 05:07
m,p-Xylenes	< 0.0200	1.00	1.22	122	1.18	118	70-130	3	35	mg/kg	10.16.18 05:07
o-Xylene	< 0.0100	0.500	0.586	117	0.563	113	70-130	4	35	mg/kg	10.16.18 05:07

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag	Limits	Cints	Date
1,4-Difluorobenzene	107		93		90		70-130	%	10.16.18 05:07
4-Bromofluorobenzene	88		113		110		70-130	%	10.16.18 05:07

Analytical Method: BTEX by EPA 8021B

3066646

Matrix: Solid

Prep Method: Date Prep:

I imita

Unite

SW5030B

Seq Number: 10.16.18 LCS Sample Id: 7664314-1-BKS LCSD Sample Id: 7664314-1-BSD MB Sample Id: 7664314-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00202	0.101	0.108	107	0.109	109	70-130	1	35	mg/kg	10.16.18 17:03
Toluene	< 0.00202	0.101	0.0934	92	0.0938	94	70-130	0	35	mg/kg	10.16.18 17:03
Ethylbenzene	< 0.00202	0.101	0.107	106	0.108	108	70-130	1	35	mg/kg	10.16.18 17:03
m,p-Xylenes	< 0.00403	0.202	0.221	109	0.223	111	70-130	1	35	mg/kg	10.16.18 17:03
o-Xylene	< 0.00202	0.101	0.106	105	0.109	109	70-130	3	35	mg/kg	10.16.18 17:03

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag	Limits	Cints	Date
1,4-Difluorobenzene	106		106		114		70-130	%	10.16.18 17:03
4-Bromofluorobenzene	86		108		112		70-130	%	10.16.18 17:03

I CC

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]

MR

MR

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

LCS = Laboratory Control Sample

A = Parent Result C = MS/LCS Result

E = MSD/LCSD Result

LCSD

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

Analysis

SW5030B

SW5030B

Flag



QC Summary 601965

LT Environmental, Inc.

PLU Big Sinks 3-25-31

Analytical Method: BTEX by EPA 8021B

Prep Method: Seq Number: 3066632 Matrix: Soil Date Prep: 10.14.18

MS Sample Id: 601915-008 S MSD Sample Id: 601915-008 SD 601915-008 Parent Sample Id:

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	Units	Analysis Date	Flag
Benzene	< 0.0100	0.500	0.891	178	0.870	174	70-130	2	35	mg/kg	10.16.18 05:49	X
Toluene	0.0261	0.500	0.576	110	0.475	90	70-130	19	35	mg/kg	10.16.18 05:49	
Ethylbenzene	0.0817	0.500	0.680	120	0.552	94	70-130	21	35	mg/kg	10.16.18 05:49	
m,p-Xylenes	0.308	1.00	1.53	122	1.73	142	70-130	12	35	mg/kg	10.16.18 05:49	X
o-Xylene	< 0.0100	0.500	0.0181	4	0.422	84	70-130	184	35	mg/kg	10.16.18 05:49	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	115		108		70-130	%	10.16.18 05:49
4-Bromofluorobenzene	174	**	537	**	70-130	%	10.16.18 05:49

Analytical Method: BTEX by EPA 8021B

Prep Method: Seq Number: 3066646 Matrix: Soil Date Prep: 10.16.18 MS Sample Id: 602090-001 S MSD Sample Id: 602090-001 SD Parent Sample Id: 602090-001

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.0951	95	0.0969	96	70-130	2	35	mg/kg	10.16.18 17:46
Toluene	< 0.00200	0.100	0.0809	81	0.0836	83	70-130	3	35	mg/kg	10.16.18 17:46
Ethylbenzene	< 0.00200	0.100	0.0924	92	0.0957	95	70-130	4	35	mg/kg	10.16.18 17:46
m,p-Xylenes	< 0.00401	0.200	0.188	94	0.196	98	70-130	4	35	mg/kg	10.16.18 17:46
o-Xylene	< 0.00200	0.100	0.0917	92	0.0937	93	70-130	2	35	mg/kg	10.16.18 17:46

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		95		70-130	%	10.16.18 17:46
4-Bromofluorobenzene	99		79		70-130	%	10.16.18 17:46

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

Received by OCD: 9/1/2025 3:46:41

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Revision 2016.1

Xenco Quote # Xenco Job # www.xenco.com Analytical Information Matrix Codes Client / Reporting Information **Project Information** 0.5 Project Name/Number:

(LU big Sin bs 3-25-3)

Project Location: Company Name / Branch: W = Water S = Soil/Sed/Solid Ø midland, Tx. 79705 GW = Ground Water Company Address: DW = Drinking Water 2300 N'A street Building Unit 103
Email: Phone No: OROL P = Product 2 SW = Surface Water 0 SL - Sludge 30 Abaker@LTenv.com (452)704-5178
Project Contact: Adrian Baker OW = Ocean/Sea Water 0 WI = Wipe O = Oil WW = Waste Water A = Air Samplers's Name: Garrett Green 7RP 4470 0 α ج Collection Number of preserved bottles Field ID / Point of Collection No. H2S04 Sample NON Depth Field Comments 5511 5517 Ś 5 8 Turnaround Time (Business days) Data Deliverable Information 5 Day TAT Same Day TAT Level II Std QC Level IV (Full Data Pkg /raw data) Next Day EMERGENCY 7 Day TAT Level III Std QC+ Forms TRRP Level IV 2 Day EMERGENCY Contract TAT Level 3 (CLP Forms) UST / RG -411 3 Day EMERGENCY Level II Report with TRRP checklist TAT Starts Day received by Lab, if received by 5:00 pm FED-EX / UPS: Tracking # SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Date Time: 10/9/18 3:05 Relinguished by: Date Time: Relinquished by: Date Time: Received By: Preserved where applicable

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client 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 \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client to control.



After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 10/10/2018 01:55:00 PM

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

Work Order #: 601965

Temperature Measuring device used: R8

work Order #: 601965	
Samp	ole Receipt Checklist Comments
#1 *Temperature of cooler(s)?	.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ co	oler? N/A
#5 Custody Seals intact on sample bottles?	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 relinquished/ red	ceived? Yes
#10 Chain of Custody agrees with sample labels/m	atrix? 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)?	N/A
#18 Water VOC samples have zero headspace?	N/A
* Must be completed for after-hours delivery of s	samples prior to placing in the refrigerator
Analyst: Ph	d Device/Lot#:

Must be	completed for after-nours de	livery of samples prior to plac	ing in the refrigerator	
Analyst:		PH Device/Lot#:		
	Checklist completed by:	Briuma Tol Brianna Teel	Date: <u>10/10/2018</u>	
	Checklist reviewed by:	Jessica Vramer Jessica Kramer	Date: 10/10/2018	



APPENDIX B

Well Permit C-01914

Released to Imaging: 9/12/2025 11:37:07 AM

READ INSTRUCTIONS ON BACK

Revised March 1979

456769 **APPLICATION TO APPROPRIATE UNDERGROUND WATERS** IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES 87794

. Name and Address of Applicant:		File No.	C-1914	
Perry R. Bass			!: July 23, 1980	-
P. O. Box 2760				
Midland, Texas 79702				
. Describe well location under one of the f				
a. SE ¼ NW ¼ NE Eddy County.	4 of Sec4Ts	vp. 25S Rge. 3.	<u>lE</u> N.M.P.M., i	n
b.Tract Noof Map No	of the			
c.Lot Noof Block No Subdivision, recorded in	of the	_County.		_
d. X =feet, Y = _	feet,]	N.M. Coordinate System_	Zon Grant	e t.
e. Give street address or route and box distance from known landmarks				
distance from known landmarks	7 M11C3 E3E 11 ON 11	araga, New Mexico		- -
		·		- .
Approximate depth (if known) 525		The second secon	i e	
Name of driller (if known)Unknown	n at this time	1 - 4.	**************************************	-
Use of water (check appropriate box or bo			Transport	
☐ One household, non-commercial tro	es, lawn and garden not to	exceed 1 acre.		
☐ Livestock watering.	0		Participanismos printerpolamismos	
☐ More than one household, non-com	mercial trees, lawns and gar	dens not to exceed a total	of 1 acre.	
 Drinking and sanitary purposes and a commercial operation. 	the irrigation of non-com	mercial trees, shrubs and		h
Prospecting, mining or drilling open	ations to discover or develo	natural resources.		
☐ Construction of public works, high	ays and roads.	* ``**********************************		
If any of the last four were marked,	give name and nature of bu	siness under Remarks. (fic	m 5)	
Remarks: Water supply well	for the drilling of	Poker Lake Unit #	#50	_
			any and the same of the same o	_
		16/6-6	om, Stev	= =
_{I,} Mike Waygood	, affirm that the forego	ing statements are true to	the best of my knowledg	e e
and belief and that development shall no	t commence until approval	of the permit has been ob	tained.	100
Perry R. Bass	, Applicant	or voer i	1-05-81	
Perry R. Bass By: Wike Wayge	ad sep	Date: July 22	2, 1980	- d
In the event any water is enco	untered in any for	mation above the S	Santa Rosa formati	ton.
ndition #2 will be complied th.	ACTION OF STATE ENG	INEER		
his application is approved for the use indi	cated, subject to all general n the reverse side hereof. Th	conditions and to the spenis permit will automatica	cific conditions numberedly expire unless this well:	d is
rilled or driven and the well record filed on			- '	
E. Reynolds) State Engineer	IVI I	TER REQUIR	ED	21
By: Delbert W. Nelson	SEE	CONDITION OF APPL	ROVAL No. 29	ja
Assistant District II Su	pervisor	File No.	c-1914 1ed: 1 + Ori U + 4	_ 1/
July 24, 1980		Log Fi	1ed:	- <i>y</i>
maging: 9/12/2025 11:37:07 AM		\sim	- 1 1) by 1 1 + 4	f

GENERAL CONDITIONS OF APPROVAL

- A. The maximum amount of water that may be appropriated under this permit is 3 acre feet in any calendar year.
- B. The well shall be drilled only by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 72-12-12).
- C. Driller's log must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the log within that time shall result in automatic cancellation of the permit. Log forms will be provided by the State Engineer upon request.
- D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household, livestock in a commercial feed lot operation, or any other commercial purpose, the permittee shall comply with Specific Condition of Approval number 5(b).
- F. In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre feet per annum.

SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

- 1. Depth of the well shall not exceed the thickness of the (a) the valley fill or (b) Ogallala formation.
- 2. The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented.
- *shap of uput 3. Appropriation and use of water under this permit shall not exceed a period of one year from the date ssat it apafoxd appropriation uodn so (p)
 - 4. Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
 - 5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water and pumping records shall be submitted to the District Supervisor; (a) for each calendar month, on or before the 30th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 30th day of January of the following year(d) or upon completion of the project if
 - 6. The well shall be plugged upon completion of the permitted use and a plugging report shall be filed with the State Engineer within 10 days.
 - 7. Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer.
 - 8. Use shall be limited strictly to household and/or drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, gardens, trees or use in any type of pool or pond is authorized under this permit.

INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be executed in triplicate and forwarded with a \$1.00 filing fee to the State Engineer. A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and file number, if possible) should be given under Remarks. (Item 5.)

Applications for appropriation, well logs and request for information in the following basins should be addressed to the State Engineer at the location indicated:

Bluewarer, Estancia, Rio Grande, Sandia and San Juan Basins

District No. 1, 2340 Menaul NE, Room 206, Albuquerque, New Mexico 87107

Capitan, Carlsbad, Fort Sumner, Hondo, Jal, Lea, Penasco, Portales, Roswell, and Upper Pecos Basins

District No. 2, Box 1717, Roswell, New Mexico 88201

Animas, Gila-San Francisco, Hot Springs, Las Animas Creek, Lordsburg, Mimbres,

Nutt-Hockett, Playas, San Simon, and Virden Valley Basins

District No. 3, Box 844, Deming, New Mexico 88030

Canadian River Basin

State Engineer, State Capitol, Bataan Memorial Bldg., Santa Fe, New Mexico 87503

*80 JUL 25 PH 2 58

STATE : CINEER SANTATE N.W.

July 23, 1980

FILE: C-1914

Perry R. Bass P.O. Box 2760 Midland, Texas 79702

Attn: Mike Waygood

Dear Mr. Bass:

Enclosed is your copy of Application to Appropriate Underground Waters in Accordance with Section 72-12-1 New Mexico Statutes, as numbered above, which has been approved subject to the conditions on the permit.

Please note that in the event any water is encountered in any formation above the Santa Rosa Formation, Condition # 2 will be complied with. Specific Condition of Approval No. 2 states: "The well shall be constructed to artesian well specifications and the State Engineer Office shall be notified before casing is landed or cemented." Since a representative from this office must inspect the casing and witness the cementing, we must be notified 24 hours prior to landing and cementing.

If you have any questions concerning the above matter, please do not hesitate to contact our office.

Yours truly,

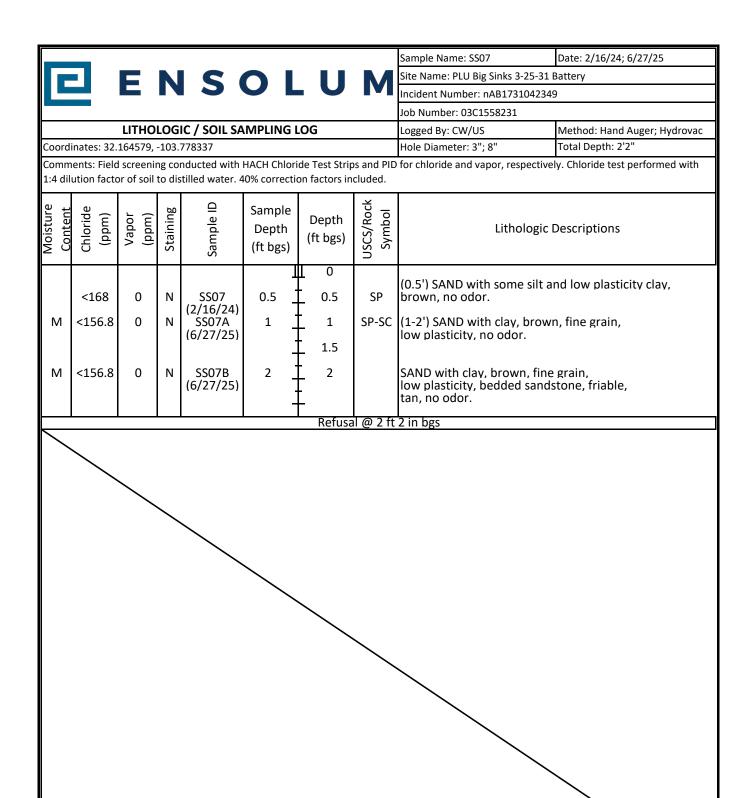
R. B. Collins, Jr. Area Supervisor

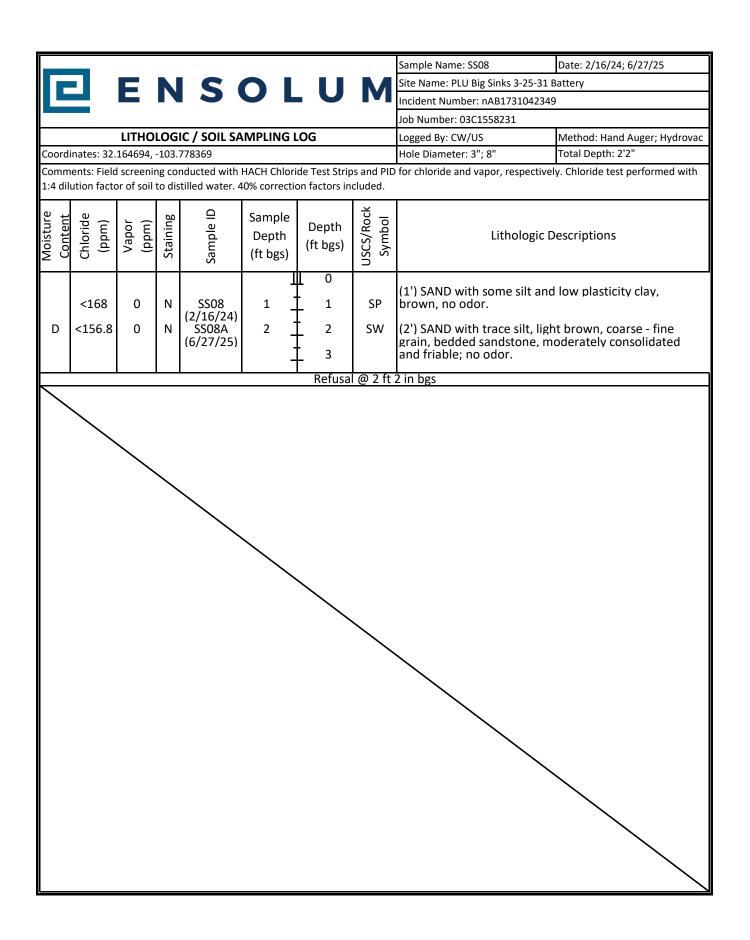
RBC:pks encl. cc: Santa Fo

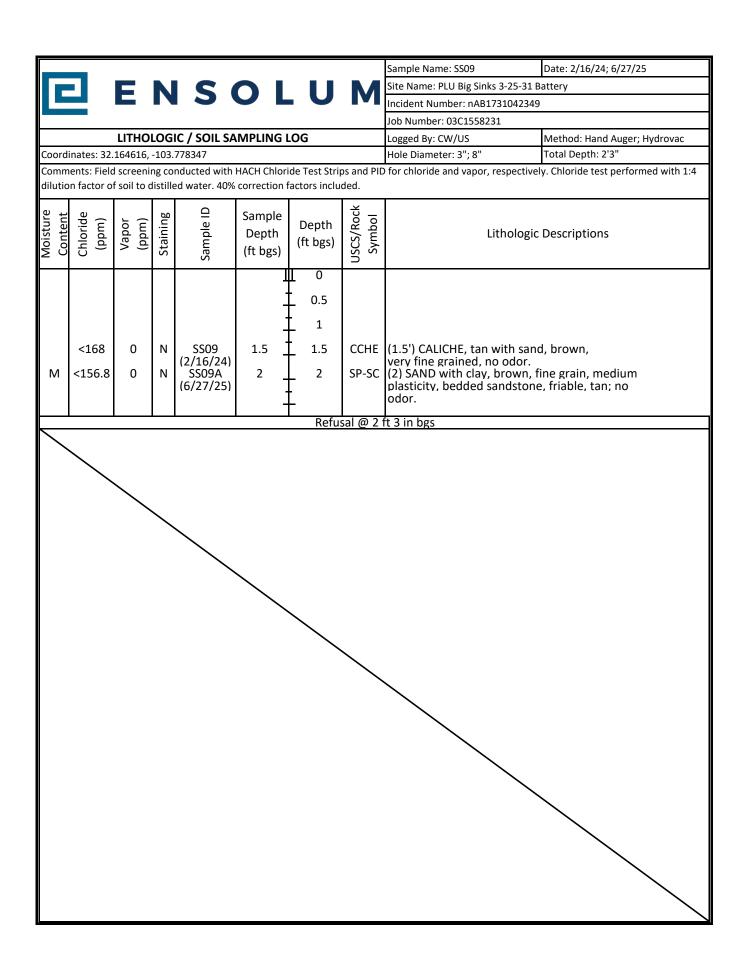


APPENDIX C

Lithologic/Soil Sampling Logs (2024 and 2025)







li-										
-								Sample Name: SS14		Date: 6/27/25
		FI	V	S	O L		M	Site Name: PLU Big Sinks 3-2		ittery
								Incident Number: nAB17310	042349	
								Job Number: 03C1558231		
					AMPLING	LOG		Logged By: US		Method: Hydrovac
	inates: 32.							Hole Diameter: 8"		Total Depth: 3'
					40% correct			of for chloride and vapor, resp	pectively	y. Chloride test performed with
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Litholo	ogic De	escriptions
S	<156.8 <156.8	0.0	Z	SS14A SS14B	1	0 1 1 - 2	SP SC	(1) SAND with some cla low plasticity, and lemo (2) Clayey SAND, brown plasticity, and no odor.	on scei n, fine	nt.
М	<156.8	0.0	N	SS14C	3 _	- - 3 -	SW-SC	(3) SAND with clay, bro plasticity, bedded sand odor.	own, fir Itone la	ne grain, medium ayer, tan, friable; no
				<u>.</u>		Refu	ısal @ 3	ft bgs		



APPENDIX D

Photographic Log (2024 and 2025)



Photographic Log XTO Energy, Inc U Big Sinks 3-25-31 Battery

PLU Big Sinks 3-25-31 Battery Incident Number nAB1731042349





Photograph 1
Description: SS07

View: Northwest

Date: 02/16/2024

Date: 06/27/2025

Photograph 2
Description: SS08

View: Northwest

Date: 02/16/2024



Photograph 3
Description: SS14

View: Southeast



Photograph 4
Description: SS09

View: Northeast

Date: 06/27/2025



APPENDIX E

Laboratory Analytical Reports and Chain of Custody Documentation (2024 and 2025)

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/26/2024 3:23:29 PM

JOB DESCRIPTION

PLU BIG SINKS 3 - 25 - 31 BATTERY 03C1558231

JOB NUMBER

890-6203-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 2/26/2024 3:23:29 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 4

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14

Client: Ensolum
Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY

Laboratory Job ID: 890-6203-1 SDG: 03C1558231

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QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	21

2

3

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10

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14

Definitions/Glossary

Job ID: 890-6203-1 Client: Ensolum Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY SDG: 03C1558231

Qualifiers

GC VOA

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Glossary

%R

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

Percent Recovery

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-6203-1

Project: PLU BIG SINKS 3 - 25 - 31 BATTERY

Eurofins Carlsbad Job ID: 890-6203-1

Job Narrative 890-6203-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/16/2024 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS 07 (890-6203-1), SS 08 (890-6203-2) and SS 09 (890-6203-3).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-73795 and analytical batch 880-73826 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-73653 and analytical batch 880-73706 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS 09 (890-6203-3), (880-39545-A-2-B), (880-39545-A-2-C MS) and (880-39545-A-2-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-73653 and analytical batch 880-73706 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The method blank for preparation batch 880-73653 and analytical batch 880-73706 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-73608 and analytical batch 880-73693 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Ensolum Job ID: 890-6203-1 Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY SDG: 03C1558231

Client Sample ID: SS 07 Lab Sample ID: 890-6203-1

Date Collected: 02/16/24 10:00 Matrix: Solid Date Received: 02/16/24 13:00

Sample Depth: 05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202	mg/Kg		02/21/24 14:04	02/24/24 04:47	
Toluene	<0.00202	U	0.00202	mg/Kg		02/21/24 14:04	02/24/24 04:47	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/21/24 14:04	02/24/24 04:47	
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/21/24 14:04	02/24/24 04:47	
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/21/24 14:04	02/24/24 04:47	
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/21/24 14:04	02/24/24 04:47	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	113		70 - 130			02/21/24 14:04	02/24/24 04:47	
1,4-Difluorobenzene (Surr)	111		70 - 130			02/21/24 14:04	02/24/24 04:47	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/24/24 04:47	
	•	ics (DRO) (G	GC)	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Dies Analyte Total TPH	•		•	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 02/22/24 01:46	
Analyte Total TPH	Result 462	Qualifier	50.4		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result 462	Qualifier	50.4		<u>D</u>		02/22/24 01:46	
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result 462	Qualifier nics (DRO) Qualifier	RL 50.4	mg/Kg		Prepared 02/20/24 11:29		Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result 462 sel Range Orga Result <50.4	Qualifier nics (DRO) Qualifier	RL 50.4 (GC) RL 50.4	mg/Kg Unit mg/Kg		Prepared 02/20/24 11:29	02/22/24 01:46 Analyzed 02/22/24 01:46	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 462 sel Range Orga Result	Qualifier nics (DRO) Qualifier	RL	mg/Kg		Prepared	02/22/24 01:46 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 462 sel Range Orga Result <50.4	Qualifier nics (DRO) Qualifier U	RL 50.4 (GC) RL 50.4	mg/Kg Unit mg/Kg		Prepared 02/20/24 11:29	02/22/24 01:46 Analyzed 02/22/24 01:46	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 462 sel Range Orga Result <50.4 462	Qualifier nics (DRO) Qualifier U	RL 50.4 (GC) RL 50.4 50.4	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/20/24 11:29 02/20/24 11:29	02/22/24 01:46 Analyzed 02/22/24 01:46 02/22/24 01:46	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 462	Qualifier nics (DRO) Qualifier U	RL 50.4 (GC) RL 50.4 50.4	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/20/24 11:29 02/20/24 11:29 02/20/24 11:29	02/22/24 01:46 Analyzed 02/22/24 01:46 02/22/24 01:46 02/22/24 01:46	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 462	Qualifier nics (DRO) Qualifier U	RL 50.4 (GC) RL 50.4 50.4 50.4 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/20/24 11:29 02/20/24 11:29 02/20/24 11:29 Prepared	02/22/24 01:46 Analyzed 02/22/24 01:46 02/22/24 01:46 02/22/24 01:46 Analyzed	Dil Fa
Analyte	Result 462	Qualifier nics (DRO) Qualifier U	RL 50.4 (GC) RL 50.4 50.4 50.4 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/20/24 11:29 02/20/24 11:29 02/20/24 11:29 Prepared 02/20/24 11:29	02/22/24 01:46 Analyzed 02/22/24 01:46 02/22/24 01:46 Analyzed 02/22/24 01:46	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier nics (DRO) Qualifier U	RL 50.4 (GC) RL 50.4 50.4 50.4 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/20/24 11:29 02/20/24 11:29 02/20/24 11:29 Prepared 02/20/24 11:29	02/22/24 01:46 Analyzed 02/22/24 01:46 02/22/24 01:46 Analyzed 02/22/24 01:46	Dil Fac

Client Sample ID: SS 08 Lab Sample ID: 890-6203-2

Date Collected: 02/16/24 10:05 Date Received: 02/16/24 13:00

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/21/24 14:04	02/24/24 05:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/21/24 14:04	02/24/24 05:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/21/24 14:04	02/24/24 05:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/21/24 14:04	02/24/24 05:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/21/24 14:04	02/24/24 05:08	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/21/24 14:04	02/24/24 05:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/21/24 14:04	02/24/24 05:08	1

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Matrix: Solid

Client: Ensolum Job ID: 890-6203-1 Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY SDG: 03C1558231

Client Sample ID: SS 08 Lab Sample ID: 890-6203-2

Date Collected: 02/16/24 10:05 Matrix: Solid Date Received: 02/16/24 13:00

Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1,4-Difluorobenzene (Surr)	115	70 - 130	02/21/24 14:04	02/24/24 05:08	1				
Mothod: TAL SOR Total PTEX	/ Total PTEY Coloulation								

Method: TAL SOP Total BTEX - Total	al BTEX Calc	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/24/24 05:08	1
_								

Method: SW846 8015 NM - Diesel Ra	nge Organics (DRO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	591	50.5	mg/Kg			02/22/24 02:32	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		02/20/24 11:29	02/22/24 02:32	1
Diesel Range Organics (Over C10-C28)	591		50.5	mg/Kg		02/20/24 11:29	02/22/24 02:32	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		02/20/24 11:29	02/22/24 02:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4.00-1			70 100			00/00/01/11/00	00/00/04 00 00	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	02/20/24 11:29	02/22/24 02:32	1
o-Terphenyl	127		70 - 130	02/20/24 11:29	02/22/24 02:32	1
Г., .,,						

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102	4.96	ma/Ka			02/21/24 03:02	1

Lab Sample ID: 890-6203-3 Client Sample ID: SS 09 Date Collected: 02/16/24 10:10 **Matrix: Solid**

Date Received: 02/16/24 13:00

Sample Depth: 1.5

Analyte

Total TPH

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/21/24 14:04	02/24/24 05:28	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/21/24 14:04	02/24/24 05:28	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/21/24 14:04	02/24/24 05:28	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/21/24 14:04	02/24/24 05:28	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/21/24 14:04	02/24/24 05:28	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/21/24 14:04	02/24/24 05:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			02/21/24 14:04	02/24/24 05:28	1
1,4-Difluorobenzene (Surr)	117		70 - 130			02/21/24 14:04	02/24/24 05:28	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/24/24 05:28	1

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Analyzed

02/22/24 02:55

RL

49.9

Unit

mg/Kg

Prepared

Result Qualifier

194

Dil Fac

Matrix: Solid

Lab Sample ID: 890-6203-3

Client Sample Results

 Client: Ensolum
 Job ID: 890-6203-1

 Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY
 SDG: 03C1558231

Client Sample ID: SS 09

Date Collected: 02/16/24 10:10 Date Received: 02/16/24 13:00

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/20/24 11:29	02/22/24 02:55	1
Diesel Range Organics (Over C10-C28)	194		49.9	mg/Kg		02/20/24 11:29	02/22/24 02:55	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/20/24 11:29	02/22/24 02:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	36	S1-	70 - 130			02/20/24 11:29	02/22/24 02:55	1
o-Terphenyl	34	S1-	70 - 130			02/20/24 11:29	02/22/24 02:55	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

4

5

8

3

11

13

14

Surrogate Summary

Job ID: 890-6203-1 Client: Ensolum Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY SDG: 03C1558231

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6201-A-1-C MS	Matrix Spike	129	104	
890-6201-A-1-D MSD	Matrix Spike Duplicate	113	97	
890-6203-1	SS 07	113	111	
390-6203-2	SS 08	113	115	
390-6203-3	SS 09	116	117	
LCS 880-73795/1-A	Lab Control Sample	104	99	
_CSD 880-73795/2-A	Lab Control Sample Dup	108	103	
MB 880-73777/5-A	Method Blank	124	123	
MB 880-73795/5-A	Method Blank	135 S1+	126	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Prep Type: Total/NA **Matrix: Solid**

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-39545-A-2-C MS	Matrix Spike	74	68 S1-	
880-39545-A-2-D MSD	Matrix Spike Duplicate	74	68 S1-	
890-6203-1	SS 07	83	90	
890-6203-2	SS 08	120	127	
890-6203-3	SS 09	36 S1-	34 S1-	
LCS 880-73653/2-A	Lab Control Sample	88	88	
LCSD 880-73653/3-A	Lab Control Sample Dup	88	87	
MB 880-73653/1-A	Method Blank	148 S1+	159 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-6203-1 Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY SDG: 03C1558231

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73777/5-A

Matrix: Solid

Analysis Batch: 73826

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73777

1

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/21/24 12:24	02/23/24 14:14	
Toluene	<0.00200	U	0.00200	mg/Kg		02/21/24 12:24	02/23/24 14:14	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/21/24 12:24	02/23/24 14:14	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/21/24 12:24	02/23/24 14:14	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/21/24 12:24	02/23/24 14:14	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/21/24 12:24	02/23/24 14:14	

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124	70 - 130	02/21/24 12:24	02/23/24 14:14	1
1,4-Difluorobenzene (Surr)	123	70 - 130	02/21/24 12:24	02/23/24 14:14	1

Lab Sample ID: MB 880-73795/5-A

Client Sample ID: Method Blank

Matrix: Solid							Prep Type:	Total/NA
Analysis Batch: 73826							Prep Batc	h: 73795
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/21/24 14:04	02/24/24 01:55	1
Toluene	<0.00200 l	U	0.00200	mg/Kg		02/21/24 14:04	02/24/24 01:55	1
Ethylbenzene	<0.00200 l	U	0.00200	mg/Kg		02/21/24 14:04	02/24/24 01:55	1
m-Xylene & p-Xylene	<0.00400 U	U	0.00400	mg/Kg		02/21/24 14:04	02/24/24 01:55	1
o-Xylene	<0.00200 l	U	0.00200	mg/Kg		02/21/24 14:04	02/24/24 01:55	1
Xylenes, Total	<0.00400 l	U	0.00400	mg/Kg		02/21/24 14:04	02/24/24 01:55	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	02/21/24 14:04	02/24/24 01:55	1
1,4-Difluorobenzene (Surr)	126		70 - 130	02/21/24 14:04	02/24/24 01:55	1

Lab Sample ID: LCS 880-73795/1-A

Matrix: Solid

Analysis Batch: 73826

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 73795

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1249		mg/Kg		125	70 - 130	
Toluene	0.100	0.1028		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.1129		mg/Kg		113	70 - 130	
m-Xylene & p-Xylene	0.200	0.2038		mg/Kg		102	70 - 130	
o-Xvlene	0.100	0.1059		ma/Ka		106	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1.4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: LCSD 880-73795/2-A

Matrix: Solid

Analysis Batch: 73826

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73795

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1249	mg/Kg		125	70 - 130	0	35

QC Sample Results

Job ID: 890-6203-1 Client: Ensolum Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY SDG: 03C1558231

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-73795/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 73826 Prep Batch: 73795 Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.1061 35 mg/Kg 106 70 - 1303 Ethylbenzene 0.100 0.1195 mg/Kg 119 70 - 130 6 35 0.200 0.2261 70 - 130 35 m-Xylene & p-Xylene mg/Kg 113 10 o-Xylene 0.100 0.1091 mg/Kg 109 70 - 130 3 35

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 108 1,4-Difluorobenzene (Surr) 103 70 - 130

Lab Sample ID: 890-6201-A-1-C MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

o-Xylene

Analysis Batch: 73826 Prep Batch: 73795

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 0.09997 Benzene <0.00199 0.101 mg/Kg 99 70 - 130 Toluene <0.00199 0.101 0.08753 87 70 - 130 U mg/Kg Ethylbenzene < 0.00199 U 0.101 0.1009 mg/Kg 100 70 - 130 0.202 0.2151 70 - 130 m-Xylene & p-Xylene <0.00398 U mg/Kg 107

0.1058

mg/Kg

104

70 - 130

0.101

MS MS Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 129 70 - 130 1,4-Difluorobenzene (Surr) 104

<0.00199 U

Lab Sample ID: 890-6201-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 73826** Prep Batch: 73795

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.1010		mg/Kg		101	70 - 130	1	35
Toluene	<0.00199	U	0.100	0.08910		mg/Kg		89	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.09544		mg/Kg		95	70 - 130	6	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2031		mg/Kg		102	70 - 130	6	35
o-Xylene	<0.00199	U	0.100	0.09952		mg/Kg		99	70 - 130	6	35

MSD MSD Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 113 70 - 130 1,4-Difluorobenzene (Surr) 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-73653/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 73706 Prep Batch: 73653 мв мв

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 02/20/24 11:29 02/21/24 20:15 Gasoline Range Organics mg/Kg (GRO)-C6-C10

o-Terphenyl

C10-C28)

o-Terphenyl

Job ID: 890-6203-1 Client: Ensolum Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY

SDG: 03C1558231

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: Method Blank Lab Sample ID: MB 880-73653/1-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 73706 Prep Batch: 73653

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/20/24 11:29	02/21/24 20:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/20/24 11:29	02/21/24 20:15	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130			02/20/24 11:29	02/21/24 20:15	1
o-Ternhenyl	150	S1+	70 130			02/20/24 11:29	02/21/24 20:15	1

Lab Sample ID: LCS 880-73653/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 73706 Prep Batch: 73653 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 944.0 94 70 - 130 mg/Kg (GRO)-C6-C10 1000 979.2 Diesel Range Organics (Over mg/Kg 98 70 - 130C10-C28) LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 88

Lab Sample ID: LCSD 880-73653/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 73706 Prep Batch: 73653

70 - 130

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics 1000 964.6 96 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 984.1 mg/Kg 98 70 - 130 20

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 88 70 - 130 o-Terphenyl 87 70 - 130

88

68 S1-

Lab Sample ID: 880-39545-A-2-C MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 73706 Prep Batch: 73653

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1010	1101		mg/Kg		105	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1010	665.3	F1	mg/Kg		63	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	74		70 - 130							

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70 - 130

Lab Sample ID: 880-39545-A-2-D MSD

Client: Ensolum Job ID: 890-6203-1 Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY SDG: 03C1558231

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 73653

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	1010	1113		mg/Kg		106	70 - 130	1	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U F1	1010	661.7	F1	mg/Kg		63	70 - 130	1	20
C10-C28)											

Matrix: Solid

Analysis Batch: 73706

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	68	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73608/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 73693

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/20/24 23:53	1

Lab Sample ID: LCS 880-73608/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 73693

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	251.7	-	mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-73608/3-A

Matrix: Solid

Analysis Batch: 73693

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	258.8		ma/Ka		104	90 - 110	3	20	

Lab Sample ID: 880-39529-A-49-B MS

Matrix: Solid

Analysis Batch: 73693

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	728	F1	248	927.3	F1	ma/Ka		80	90 110	

Lab Sample ID: 880-39529-A-49-C MSD

Matrix: Solid

Analysis Batch: 73693

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	728	F1	248	939.7	F1	mg/Kg		85	90 - 110	1	20

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QC Association Summary

 Client: Ensolum
 Job ID: 890-6203-1

 Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY
 SDG: 03C1558231

GC VOA

Prep Batch: 73777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73777/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 73795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6203-1	SS 07	Total/NA	Solid	5035	
890-6203-2	SS 08	Total/NA	Solid	5035	
890-6203-3	SS 09	Total/NA	Solid	5035	
MB 880-73795/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73795/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73795/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6201-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-6201-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 73826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6203-1	SS 07	Total/NA	Solid	8021B	73795
890-6203-2	SS 08	Total/NA	Solid	8021B	73795
890-6203-3	SS 09	Total/NA	Solid	8021B	73795
MB 880-73777/5-A	Method Blank	Total/NA	Solid	8021B	73777
MB 880-73795/5-A	Method Blank	Total/NA	Solid	8021B	73795
LCS 880-73795/1-A	Lab Control Sample	Total/NA	Solid	8021B	73795
LCSD 880-73795/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73795
890-6201-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	73795
890-6201-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	73795

Analysis Batch: 74091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6203-1	SS 07	Total/NA	Solid	Total BTEX	
890-6203-2	SS 08	Total/NA	Solid	Total BTEX	
890-6203-3	SS 09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 73653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6203-1	SS 07	Total/NA	Solid	8015NM Prep	
890-6203-2	SS 08	Total/NA	Solid	8015NM Prep	
890-6203-3	SS 09	Total/NA	Solid	8015NM Prep	
MB 880-73653/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73653/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73653/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-39545-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-39545-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6203-1	SS 07	Total/NA	Solid	8015B NM	73653
890-6203-2	SS 08	Total/NA	Solid	8015B NM	73653
890-6203-3	SS 09	Total/NA	Solid	8015B NM	73653
MB 880-73653/1-A	Method Blank	Total/NA	Solid	8015B NM	73653
LCS 880-73653/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73653

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QC Association Summary

 Client: Ensolum
 Job ID: 890-6203-1

 Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY
 SDG: 03C1558231

GC Semi VOA (Continued)

Analysis Batch: 73706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-73653/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73653
880-39545-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	73653
880-39545-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	73653

Analysis Batch: 73841

Lab Sample ID 890-6203-1	Client Sample ID SS 07	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-6203-2	SS 08	Total/NA	Solid	8015 NM	
890-6203-3	SS 09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 73608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6203-1	SS 07	Soluble	Solid	DI Leach	_
890-6203-2	SS 08	Soluble	Solid	DI Leach	
890-6203-3	SS 09	Soluble	Solid	DI Leach	
MB 880-73608/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73608/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73608/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-39529-A-49-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-39529-A-49-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 73693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6203-1	SS 07	Soluble	Solid	300.0	73608
890-6203-2	SS 08	Soluble	Solid	300.0	73608
890-6203-3	SS 09	Soluble	Solid	300.0	73608
MB 880-73608/1-A	Method Blank	Soluble	Solid	300.0	73608
LCS 880-73608/2-A	Lab Control Sample	Soluble	Solid	300.0	73608
LCSD 880-73608/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73608
880-39529-A-49-B MS	Matrix Spike	Soluble	Solid	300.0	73608
880-39529-A-49-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	73608

Eurofins Carlsbad

Released to Imaging: 9/12/2025 11:37:07 AM

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Client: Ensolum Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY Job ID: 890-6203-1 SDG: 03C1558231

Lab Sample ID: 890-6203-1

Lab Sample ID: 890-6203-2

Matrix: Solid

Date Collected: 02/16/24 10:00 Date Received: 02/16/24 13:00

Client Sample ID: SS 07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	73795	02/21/24 14:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73826	02/24/24 04:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74091	02/24/24 04:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			73841	02/22/24 01:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	73653	02/20/24 11:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73706	02/22/24 01:46	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	73608	02/20/24 08:04	SA	EET MID
Soluble	Analysis	300.0		1			73693	02/21/24 02:55	CH	EET MID

Client Sample ID: SS 08

Date Collected: 02/16/24 10:05

Date Received: 02/16/24 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73795	02/21/24 14:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73826	02/24/24 05:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74091	02/24/24 05:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			73841	02/22/24 02:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73653	02/20/24 11:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73706	02/22/24 02:32	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	73608	02/20/24 08:04	SA	EET MID

73693

02/21/24 03:02

CH

Client Sample ID: SS 09

Soluble

Date Collected: 02/16/24 10:10

Analysis

300.0

Date Received: 02/16/24 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73795	02/21/24 14:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73826	02/24/24 05:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74091	02/24/24 05:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			73841	02/22/24 02:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73653	02/20/24 11:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73706	02/22/24 02:55	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	73608	02/20/24 08:04	SA	EET MID
Soluble	Analysis	300.0		1			73693	02/21/24 03:08	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

EET MID Lab Sample ID: 890-6203-3

Matrix: Solid

Matrix: Solid

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-6203-1 Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY SDG: 03C1558231

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progra	m	Identification Number	Expiration Date
Texas	NELAP)	T104704400-23-26	06-30-24
,	are included in this report, but loes not offer certification.	the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Ensolum
Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY

Job ID: 890-6203-1 SDG: 03C1558231

_	DO: 000 1000201
	Laboratory
	EET MID

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Ensolum

Project/Site: PLU BIG SINKS 3 - 25 - 31 BATTERY

Job ID: 890-6203-1

SDG: 03C1558231

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6203-1	SS 07	Solid	02/16/24 10:00	02/16/24 13:00	05
890-6203-2	SS 08	Solid	02/16/24 10:05	02/16/24 13:00	1
890-6203-3	SS 09	Solid	02/16/24 10:10	02/16/24 13:00	1.5

2/26/2024

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order	No:	

Project Manager:	Taco	ma Morris	sey			Bill to: (if	f different)	Garre	tt Gre	en						Work Order Com				er Comment	Comments			
Company Name:	Enso					Compar	ny Name	:	хто	Energy	у						Progra	m: US	T/PST [PR	P[] Br	rownfields 🗌 l	RRC Superf	und 🗌	
Address:	3122	National	Parks H	lwy		Address	3:		3104	E. Gre	en St						State o								
City, State ZIP:	Carls	bad, NM	88220			City, Sta	te ZIP:		Carls	bad, N	IM 882	220					Reporti	ng: Le	vel II 🗌	Leve	I III 🗌	PST/UST []	RRP Leve	el IV	
Phone:		87-2946			Email:	Garrett	.Green(@Exx	onMo	bil.co	m						Deliverables: EDD ADaPT Other:								
Project Name:	DI	I Big Sin	ks 3-25.	-31 Battery	Turn	Around	ound ANALYSIS REQUEST						Pres	ervative Code	es										
Project Number:	1		155823		✓ Routine	Rus		Pres.						T								None: NO	DI Wate	r: H ₂ O	
Project Location:				-	Due Date:									1 110	MAAA AADAAA	1111			1111111111	101		Cool: Cool	MeOH: I	Ме	
Sampler's Name:		Conn	or White	man	TAT starts th						ļ											HCL: HC	HNO ₃ : H		
PO #:					the lab, if red	eived by 4	4:30pm	eters												(1)		H ₂ S0 ₄ : H ₂	NaOH: I	Va	
SAMPLE RECE	IPT	Temp E	Nank:	Yes No	Wet ice:	Yes	No	nete	6.					80	0-6203	IIIII Ch	hain of Cuetody					H₃PO₄: HF			
Samples Received I	ntact:	Yes/	No	Thermometer	ID:	INN	100	ag C	3000					-03	0-0203	CIT	Chain of Custody NaHSO ₄ : NABIS								
Cooler Custody Sea	ls:	Yes No	N/A	Correction Fa	ctor:	-0	2	Δ.	PA:						1			- 1		- 1			Na ₂ S ₂ O ₃ : NaSO ₃		
Sample Custody Se	als:	Yes No	N/A	temperature		2.0	2		S (E		=		-										Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC		
Total Containers:				Corrected Ter	mperature:		8			15)	802		-			-			_	+	-	NaOH+As	cordic Acid: SAI	20	
Sample Ide	ntificat	ion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp		CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)											Sam	ple Commen	ts	
550	7		5	2/16/24	1000	.5	G	1	V	1												Incident I	D:		
5508					1005			1										_				n	AB1731042349		
3509	7		V		10:0	1.5	V	1								_		=							
					<i>'</i>					<u>'</u> _												Cost Cen	ter:		
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Total 200.7 / 6	010	200.8 / 6	020:	8R	CRA 13PP	M Tex	as 11	AI SI	As	Ba B	е В	Cd Ca	a Cr	Co Cu	Fe Pt	b N	/lg Mn	Mo 1	Ni K S	e Ag	SiO ₂	Na Sr TI S	n U V Zn		
Circle Method(s) a					TCLP / SF																	31 / 245.1 / 74			
Notice: Signature of this					tutes a valid our	chase orde	er from clie	ent con	pany to	Eurofi	ns Xend	o, its af	iliates a	and subco	ntractors.	. It a	assigns st	andard	terms ar	d conc	ditions				

of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the elient if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins 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
1 684	55min 8 2/16	1300	2		
3			4		
5			6		
					Revised Date: 08/25/2020 Rev. 20

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-6203-1

 SDG Number: 03C1558231

Login Number: 6203 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6203-1 SDG Number: 03C1558231

List Source: Eurofins Midland

List Creation: 02/19/24 08:27 AM

Login Number: 6203 List Number: 2

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Eurofins Carlsbad

<6mm (1/4").

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July 01, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU BIG SINKS 03-25-31 BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 06/30/25 12:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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/qa/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, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 06/30/2025 Reported: 07/01/2025

Project Name: PLU BIG SINKS 03-25-31 BATTERY - SPI

Project Number: 03C1558231

Project Location: XTO 32.16468-103.77774

Sampling Date: 06/27/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 07A 1' (H253922-01)

DTEV 0021D

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	06/30/2025	ND	1.92	96.2	2.00	0.848	
Toluene*	<0.050	0.050	06/30/2025	ND	1.96	98.1	2.00	0.936	
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.00	99.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.96	99.4	6.00	1.18	
Total BTEX	<0.300	0.300	06/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	32.0	16.0	06/30/2025	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	06/30/2025	ND	192	96.2	200	2.35	
DRO >C10-C28*	<10.0	10.0	06/30/2025	ND	189	94.4	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	06/30/2025	ND					
Surrogate: 1-Chlorooctane	95.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	95.4	% 40.6-15	3						

Applyand By 14

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 06/30/2025 Reported: 07/01/2025 Sampling Date: 06/27/2025 Sampling Type: Soil

Project Name: PLU BIG SINKS 03-25-31 BATTERY - SPI

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Project Number: 03C1558231

Project Location: XTO 32.16468-103.77774

Sample ID: SS 07B 2' (H253922-02)

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	06/30/2025	ND	1.92	96.2	2.00	0.848	
Toluene*	<0.050	0.050	06/30/2025	ND	1.96	98.1	2.00	0.936	
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.00	99.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.96	99.4	6.00	1.18	
Total BTEX	<0.300	0.300	06/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 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	06/30/2025	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	06/30/2025	ND	192	96.2	200	2.35	
DRO >C10-C28*	<10.0	10.0	06/30/2025	ND	189	94.4	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	06/30/2025	ND					
Surrogate: 1-Chlorooctane	96.8	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	96.0	% 40.6-15	3						

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Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 06/30/2025 Reported: 07/01/2025

PLU BIG SINKS 03-25-31 BATTERY - SPI

Project Number: 03C1558231

Project Location: XTO 32.16468-103.77774

Sampling Date: 06/27/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 08A 2' (H253922-03)

Project Name:

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	06/30/2025	ND	1.92	96.2	2.00	0.848	
Toluene*	<0.050	0.050	06/30/2025	ND	1.96	98.1	2.00	0.936	
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.00	99.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.96	99.4	6.00	1.18	
Total BTEX	<0.300	0.300	06/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 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	06/30/2025	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	06/30/2025	ND	192	96.2	200	2.35	
DRO >C10-C28*	<10.0	10.0	06/30/2025	ND	189	94.4	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	06/30/2025	ND					
Surrogate: 1-Chlorooctane	96.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	94.9	% 40.6-15	3						

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Cool & Intact

Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 06/30/2025 Reported:

Sampling Date: 06/27/2025 07/01/2025 Sampling Type: Soil

Sampling Condition:

Project Name: PLU BIG SINKS 03-25-31 BATTERY - SPII

Project Number: Sample Received By: 03C1558231 Shalyn Rodriguez

Project Location: XTO 32.16468-103.77774

Sample ID: SS 09A 2' (H253922-04)

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	06/30/2025	ND	1.92	96.2	2.00	0.848	
Toluene*	<0.050	0.050	06/30/2025	ND	1.96	98.1	2.00	0.936	
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.00	99.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.96	99.4	6.00	1.18	
Total BTEX	<0.300	0.300	06/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	32.0	16.0	06/30/2025	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	06/30/2025	ND	192	96.2	200	2.35	
DRO >C10-C28*	<10.0	10.0	06/30/2025	ND	189	94.4	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	06/30/2025	ND					
Surrogate: 1-Chlorooctane	97.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	95.7	% 40.6-15	3						

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Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 06/30/2025 Sampling Date: 06/27/2025 Sampling Type: Soil

Reported: Project Name: 07/01/2025 PLU BIG SINKS 03-25-31 BATTERY - SPII

Sampling Condition: Cool & Intact

Project Number:

03C1558231

Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.16468-103.77774

Sample ID: SS 14A 1' (H253922-05)

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	06/30/2025	ND	1.88	94.0	2.00	1.65	
Toluene*	<0.050	0.050	06/30/2025	ND	1.96	97.8	2.00	1.92	
Ethylbenzene*	< 0.050	0.050	06/30/2025	ND	1.95	97.4	2.00	2.22	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.74	95.6	6.00	2.22	
Total BTEX	<0.300	0.300	06/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 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	06/30/2025	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	06/30/2025	ND	192	96.2	200	2.35	
DRO >C10-C28*	<10.0	10.0	06/30/2025	ND	189	94.4	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	06/30/2025	ND					
Surrogate: 1-Chlorooctane	83.7 9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.3	% 40.6-15	3						

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Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 06/30/2025 Reported: 07/01/2025

06/30/2025 Sampling Date: 07/01/2025 Sampling Type:

Project Name: PLU BIG SINKS 03-25-31 BATTERY - SPII
Project Number: 03C1558231

Project Location: XTO 32.16468-103.77774

Sampling Type: Soil
Sampling Condition: Cool & Intact

Sample Received By:

Shalyn Rodriguez

06/27/2025

Sample ID: SS 14B 2' (H253922-06)

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	06/30/2025	ND	1.88	94.0	2.00	1.65	
Toluene*	<0.050	0.050	06/30/2025	ND	1.96	97.8	2.00	1.92	
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	1.95	97.4	2.00	2.22	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.74	95.6	6.00	2.22	
Total BTEX	<0.300	0.300	06/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 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	06/30/2025	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	06/30/2025	ND	192	96.2	200	2.35	
DRO >C10-C28*	18.0	10.0	06/30/2025	ND	189	94.4	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	06/30/2025	ND					
Surrogate: 1-Chlorooctane	90.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.0	% 40.6-15	3						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 06/30/2025 Reported: 07/01/2025

07/01/2025 Sar PLU BIG SINKS 03-25-31 BATTERY - SPII Sar

Project Name: PLU BIG SIN Project Number: 03C1558231

Project Location: XTO 32.16468-103.77774

ma/ka

Sampling Date: 06/27/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 14C 3' (H253922-07)

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	06/30/2025	ND	1.88	94.0	2.00	1.65	
Toluene*	<0.050	0.050	06/30/2025	ND	1.96	97.8	2.00	1.92	
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	1.95	97.4	2.00	2.22	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.74	95.6	6.00	2.22	
Total BTEX	<0.300	0.300	06/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 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	32.0	16.0	06/30/2025	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	06/30/2025	ND	192	96.2	200	2.35	
DRO >C10-C28*	<10.0	10.0	06/30/2025	ND	189	94.4	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	06/30/2025	ND					
Surrogate: 1-Chlorooctane	90.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.6	% 40.6-15	3						

Applyzod By: 14

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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

ecovery.

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 10 of 10

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						ANA	LYSI	SR	EQUE	ST			
Project Manager	: Katherine Khan								P.C). #:												T				П
Address: 601 N	Marienfeld Street, Su	ite 400							Со	mpa	any:	Χī	TO Energy	y, Inc												- 1
City: Midland		State: TX	Zip	: 79	701				Att	n:	Colto	n E	Brown													- 1
Phone #: 303.3	19.9604	Fax #:							Ad	dres	ss: 3	310	04 E Gree	ne St									1			- 1
Project #: 03C	1558231	Project Owne	er:)	хто	Ene	ergy			Cit	y:	Carls	sba	ad													- 1
Project Name: P	LU Big Sinks 3-25-3	31 Battery				- 5	SPIL	LS	Sta	ate:	NM	Z	Zip: 8822	20												- 1
Project Location	: 32.16468, -103.7	77774							Ph	one	#:															- 1
Sampler Name:	Uriel Santillana								Fax	x #:																- 1
FOR LAB USE ONLY			Τ.	Г		M	ATRI	X		PRI	SERV	4	SAMP	LING												- 1
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL		DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500									
1	5507A	1'	G	1		1	X				X	6	127/25	1230	X	×	×									
2	5507B	2'	i	1			1				1			1235	1	1	1									
3	5508A	2'		П								1		1120												
4	5509A	2'	П	П								1		1222								_				
S	5514A	1'	\square	Ш		4	1					1		1005	\perp		\perp						-			
6	5514B	2'	11	Ш	Ш	4	1		Ш		1	1	1.	1012	1	Н							-	1		\perp
7	5514C	3'	1	V		- 1	4	1		Ш	4	1	Ψ.	Also	*	4	4		-	₩	-	-	-	\vdash		\dashv
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			+	-			-	F				Ŧ					-	-	-	-	-	+	-	-	U9	Н
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Relinquished By:	Pate: 30:21 Time: 210	Received By:	que	BBelill@enselum.ex	Yes No Ac ailed. Please provide an, TMorrissey@ensol and, KThomason@en	lum.com, KK@ResolutionConsultantsLLC.com
Relinquished By:	Date:	Received By:	'	Cost C	nt Number: nAB1731 Center:1081021001 k;48605000	042349
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C	Sample Condition Cool Intact Yes Yes No No	CHECKED BY:	Turnaround Time: Thermometer ID #1' Correction Factor -0.	Standard E	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C

Released to Imaging: 9/12/2025 11:37:07 AM

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

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 500882

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	500882
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1731042349
Incident Name	NAB1731042349 POKER LAKE UNIT CVX JV BS #027H @ 30-015-42111
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-42111] POKER LAKE UNIT CVX JV BS #027H

Location of Release Source			
Please answer all the questions in this group.			
Site Name	POKER LAKE UNIT CVX JV BS #027H		
Date Release Discovered	10/28/2017		
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 for the volumes provided should be attached to the follow-up C-141 submission.					
Crude Oil Released (bbls) Details	Cause: Equipment Failure Gasket Crude Oil Released: 51 BBL Recovered: 36 BBL Lost: 15 BBL.				
Produced Water Released (bbls) Details	Cause: Equipment Failure Gasket Produced Water Released: 6 BBL Recovered: 4 BBL Lost: 2 BBL.				
Is the concentration of chloride in the produced water >10,000 mg/l	No				
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.				

General Information Phone: (505) 629-6116

Operator:

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 2

Action 500882

QUESTIONS ((continued)
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OGRID:

XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	500882
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
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.
Isitial Dagrama	
Initial Response	afate beyond that would requit in injury
The responsible party must undertake the following actions immediately unless they could create a since 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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	nowledge and understand that pursuant to OCD rules and regulations all operators are required ses 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
I hereby agree and sign off to the above statement	Name: Ashley Mcafee Email: ashley.a.mcafee@exxonmobil.com Date: 09/01/2025

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 3

Action 500882

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	500882
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	Attached Document		
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 1 and 5 (mi.)		
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	Greater than 5 (mi.)		
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)		
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)		
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)		
A wetland	Between 1 and 5 (mi.)		
A subsurface mine	Greater than 5 (mi.)		
An (non-karst) unstable area	Greater than 5 (mi.)		
Categorize the risk of this well / site being in a karst geology	Low		
A 100-year floodplain	Between 1 and 5 (mi.)		
Did the release impact areas not on an exploration, development, production, or storage site	Yes		

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 as	ssociated 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 millig	grams per kilograms.)				
Chloride (EPA 300.0 or SM4500 Cl B)	1100				
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2630				
GRO+DRO (EPA SW-846 Method 8015M)	2580				
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1				
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1				
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed el which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,				
On what estimated date will the remediation commence	07/25/2018				
On what date will (or did) the final sampling or liner inspection occur	06/27/2025				
On what date will (or was) the remediation complete(d)	07/27/2018				
What is the estimated surface area (in square feet) that will be reclaimed	5275				
What is the estimated volume (in cubic yards) that will be reclaimed	465				
What is the estimated surface area (in square feet) that will be remediated	5275				
What is the estimated volume (in cubic yards) that will be remediated	465				
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 500882

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	500882
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
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	fEEM0112342028 LEA LAND LANDFILL	
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.	
2. 0.1-1:- P-40 45 00 44 NIMO		

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.

I hereby agree and sign off to the above statement Name: Ashley Mcafee Email: ashley.a.mcafee@exxonmobil.com Date: 09/01/2025	I hereby agree and sign off to the above statement	Email: ashley.a.mcafee@exxonmobil.com
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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 500882

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	500882
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

Remediation Closure Request

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr.

QUESTIONS, Page 6

Action 500882

QUESTIONS (continued)

Santa Fe, NM 87505

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	500882
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded 477346	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/27/2025
What was the (estimated) number of samples that were to be gathered	16
What was the sampling surface area in square feet	1200

Nemediation Closure Nequest	
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	4050
What was the total volume (cubic yards) remediated	363
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	2650
What was the total volume (in cubic yards) reclaimed	261
Summarize any additional remediation activities not included by answers (above)	Soil delineation sampling, excavation activities, and confirmation sampling were conducted at the Site to address impacted soil resulting from the October 28, 2017, release of crude oil and produced water. Following excavation both on-pad and in the pasture west of the pad, laboratory analytical results from delineation and confirmation sampling indicate that all COC concentrations were in compliance with the appropriate Closure Criteria and on-pad waste-containing soil were fully defined to the reclamation standard in the top 2 feet. Due to the presence of multiple utilities at the active Site, the release was remediated on-pad to Closure Criteria for safety reasons. Approximately 1,400 square feet of waste-containing soil was delineated within the top 2 feet and is present at sample locations SS07 through SS09. Following Site decommissioning, an estimated 104 cubic yards of waste-containing soil will be reclaimed. The presence of the waste-containing soil present on-pad does not cause an imminent risk to human health, the environment, or groundwater. XTO will reclaim this soil reporting COC concentrations exceeding reclamation requirement but below Closure Criteria during final Site reclamation.

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 or 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.

Name: Ashley Mcafee I hereby agree and sign off to the above statement Email: ashley.a.mcafee@exxonmobil.com Date: 09/01/2025

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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 500882

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	500882
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with 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

CONDITIONS

Action 500882

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	500882
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Create By	d Condition	Condition Date
nvele	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	9/12/2025