Received by OCD: 8/24/2023 2:08:51 PM⁴

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

Page 1 of 268 3

Incident ID	NRM2004445859
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380	
Contact Name Kyle Littrell	Contact Telephone 432-221-7331	
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)	
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	1	

Location of Release Source

Latitude _32.16472_

Longitude -103.79703

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Poker Lake Unit 147	Site Type Well Location
Date Release Discovered 01/28/20	API# (if applicable) 30-015-31177 (Poker Lake Unit 147)

Unit Letter	Section	Township	Range	County
В	05	258	31E	Eddy

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 11.39	Volume Recovered (bbls) 10
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
into an unlined berm.	Poker Lake Unit 147 well unloaded overnight causing th Vacuum truck was dispatched and recovered 10 barrels ned for remediation activities.	

Received by OCD: 8/24	/2023 2:08:51 PM		Page 2 of 2
Form C-141	State of New Mexico	Incident ID	NRM2004445859
Page 2	Oil Conservation Division	District RP	
		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? N/A
🗌 Yes 🖾 No	
If YES, was immediate r	notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
N/A	

Initial Response

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

The source of the release has been stopped.

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

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

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

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

N/A

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

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

Printed Name: Kyle Littrell	Title: <u>SH&E Supervisor</u>
Signature:	Date:2/11/2020
email:Kyle_Littrell@xtoenergy.com	Telephone:
OCD Only	
Received by: Ramona Marcus	Date: 2/13/2020

NRM2004445859

Location:	Poker Lake Unit 147
Spill Date:	1/28/2020
	MAIN POOL
Approximate Area =	783.00 sq. ft
Average Saturation (or depth) of spill =	4.00 inch
Average Porosity Factor =	0.03
Average i orosity ruetor	VOLUME OF LEAK
Total Produced Water =	1.39 bbls
	L VOLUME OF LEAK
Tatal Draducad Water -	11.39 bbls

Total Produced Water =

VOLUME RECOVERED

Total Produced Water =

10.00 bbls

Received by OCD: 8/24/2023 2:08:51 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 4 of 26
Incident ID	NRM2004445859
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

Page 3

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

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

Received by OCD: 8/24/2023 2:0 Form C-141 Page 4	<i>D8:51 PM</i> State of New Mexico Oil Conservation Division		Incident ID District RP Facility ID Application ID	Page 5 of 268 NRM2004445859
regulations all operators are requir public health or the environment. failed to adequately investigate and	n given above is true and complete to the ed to report and/or file certain release noti The acceptance of a C-141 report by the C d remediate contamination that pose a thre 41 report does not relieve the operator of	ifications and perform co DCD does not relieve the eat to groundwater, surface	rrective actions for rele operator of liability sho ce water, human health	ases which may endanger ould their operations have or the environment. In
Printed Name:	Kyle Littrell	Title: <u>SH&E S</u>	upervisor	
Signature:	Kyle Littrell	Date: <u>11/23/2020</u>		
email: Kyle_Littrell@x	toenergy.com	Telephone:	(432)-221-7331	
OCD Only				
Received by:		Date:		

Received by OCD: 8/24/2023 2:08:51 PM State of New Mexico

Detailed description of proposed remediation technique

Page 5

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	NRM2004445859
District RP	
Facility ID	
Application ID	

Remediation Plan

Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: _____ Kyle Littrell Title: <u>SH&E Supervisor</u> Signature: Date: 11/23/2020 email: _____ Kyle_Littrell@xtoenergy.com _____ Telephone: (432)-221-7331 OCD Only Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Jennifer Nobui Date: 03/04/2022

Page 6

Oil Conservation Division

Inci	dent ID	NRM2004445859
Dist	trict RP	
Fac	ility ID	
App	lication ID	

Page 7 of 268

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. X A scaled site and sampling diagram as described in 19.15.29.11 NMAC X Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) X Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Garrett Green Signature: garrett.green@exxonmobil.com Telephone: 575-200-0749 email: **OCD Only** Received by: <u>Shelly Wells</u> Date: 8/25/2023 Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: _____ Date: _____ Printed Name: _____ Title:

ENSOLUM

August 18, 2023

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

Re: Closure Request Poker Lake Unit 147 Incident Number NRM2004445859 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc (XTO), has prepared this *Closure Request* to document excavation and confirmation soil sampling activities performed at the Poker Lake Unit 147 (Site) following an approved *Deferral Request* and subsequent plugging and abandonment of the production well and reclamation of the well pad. Based on field observations and laboratory analytical results following excavation of residually impacted soil, XTO is submitting this *Closure Request* describing additional excavation activities that have occurred and requesting no further action for Incident Number NRM2004445859.

SITE DESCRIPTION AND BACKGROUND

The Site is located in Unit B, Section 5, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.16472°, -103.79703°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 28, 2020, the Poker Lake Unit 147 well unloaded overnight causing the water tank to overflow 11.39 barrels (bbls) of produced water into an unlined berm. A vacuum truck was dispatched and recovered 10 bbls. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Release Notification Form C-141 (Form C-141) on February 11, 2020. The release was assigned Incident Number NRM2004445859.

XTO retained WSP USA Inc. (WSP) to assess and remediate the Site. Since the release occurred in an unlined containment with active production equipment, excavation of impacted soil was completed to the maximum extent practicable (MEP) on the east side of the containment and southwestern portion of the containment. Following initial assessment and remediation efforts, a *Deferral Request* was submitted to NMOCD on November 25, 2020, to defer total petroleum hydrocarbon (TPH)-impacted soil, which was approved on March 4, 2022, by NMOCD. The approval of the *Deferral Request*, which is included in Appendix A.

XTO has plugged and abandoned the production well and has removed all equipment in preparation for reclamation of the well pad. As such, the deferred areas in the vicinity of the southern and eastern portions of the containment could safely be accessed to remediate residual TPH-impacted soil. Results of the additional remedial actions are described below. All previous documentation related to Incident Number NRM2004445859 is available on NMOCD's web portal.

XTO Energy Inc Closure Request Poker Lake Unit 147

CLOSURE CRITERIA

The Site was characterized to determine the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization and field investigation of naturally occuring chloride in soil was presented in the November 25, 2020 *Deferral Request*.

Based on the results of the Site Characterization presented in the original *Deferral Request* approved by NMOCD on March 4, 2022, 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 off pad area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

EXCAVATION ACTIVITIES

Between June 28 and July 5, 2023, Ensolum personnel oversaw excavation activities in deferred areas, which contained residually elevated TPH concentrations. Excavation activities were performed by use of heavy equipment and directed field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. Photographic documentation of excavation activities is included in Appendix B.

Following removal of soil, Ensolum personnel collected 5-point composite soil samples representing up to 200 square feet from the floor and sidewall of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. In total, seven floor soil samples (FS01 through FS07) and 13 sidewall soil samples (SW01 through SW13) were collected from the final excavation extent. Due to the sandy soil present underneath the caliche well pad, the excavation sidewalls were sloped to prevent potential cave-ins and present a potential safety hazard for those onsite. As a result, the full excavation extent was wider than the excavation floor. The sampling profile for the sidewalls was ultimately split between shallow sidewall soil samples (from the ground surface to 4 feet below ground surface (bgs) and deeper sidewall soil samples (from 4 feet to 12 feet bgs).

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals 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.



XTO Energy Inc Closure Request Poker Lake Unit 147

Laboratory analytical results indicated all COCs from floor and sidewall soil samples were compliant with the Closure Criteria and/or reclamation requirement where applicable. The excavation extents and excavation soil sample locations are presented on Figure 2. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

The final excavation extents measured at the ground surface was 2,430 square feet and 1,350 square feet at the base of the excavation, located at approximately 12 feet bgs. A total of approximately 840 cubic yards of waste-containing and impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing in preparation for Site-wide final reclamation processes that are underway.

CLOSURE REQUEST

Excavation of residually impacted soil around the former unlined containment and production has mitigated impacts at this Site. All final excavation confirmation soil samples are in compliance with the Closure Criteria and/or reclamation requirement where applicable. XTO is in the process of reclaiming the entire well pad and this excavation will be incorporated into their reclamation plan and execution. XTO believes these remedial actions are protective of human health, the environment, and groundwater. Based on initial response efforts, soil sample laboratory analytical results following excavation of impacted soil, XTO respectfully requests closure for Incident Number NRM2004445859.

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

Sincerely, Ensolum, LLC

Daniel R. Moir, PG Senior Managing Geologist

cc: Garrett Green, XTO Shelby Pennington, XTO BLM

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Excavation Soil Sample Locations
- Table 1Soil Sample Analytical Results
- Appendix A Deferral Request, dated November 25, 2020
- Appendix B Photographic Log
- Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix D NMOCD Correspondences



Ashley L. Ager

Ashley L. Ager, M.S., PG Principal



Figures

.

Received by OCD: 8/24/2023 2:08:51 PM



Released to Imaging: 1/5/2024 3:07:17 PM

Received by OCD: 8/24/2023 2:08:51 PM





Table

.



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Poker Lake Unit 147 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
				Exca	avation Soil Sa	mples	1			
FS01	06/29/2023	12	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49,8	117
FS02	06/30/2023	13	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	224
FS03	06/30/2023	13	<0.00200	<0.00400	<50.1	<50.1	<50.1	<50.1	<50.1	272
FS04	07/05/2023	12	<0.00202	<0.00403	<49.8	87.3	<49.8	87.3	87.3	171
FS05	07/05/2023	12	<0.00200	<0.00399	<50.0	107	<50.0	107	107	208
FS06	07/05/2023	12	<0.00201	<0.00402	<50.1	292	<50.1	292	292	307
FS07	07/05/2023	12	<0.00200	<0.00401	<50.1	239	<50.1	239	239	378
SW01	06/29/2023	4 - 12	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	128
SW02	06/29/2023	4 - 12	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	116
SW03	06/29/2023	4 - 12	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	<50.1	141
SW04	06/29/2023	4 - 12	<0.00201	<0.00402	<50.3	<50.3	<50.3	<50.3	<50.3	190
SW05	06/29/2023	4 - 12	<0.00202	<0.00403	<50.4	<50.4	<50.4	<50.4	<50.4	197
SW06	06/30/2023	0 - 4	<0.00200	<0.00399	<50.3	72.0	<50.3	72.0	72.0	87.2
SW07	06/30/2023	0 - 4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	200
SW08	06/30/2023	4 - 12	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	780
SW09	06/30/2023	0 - 4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	176
SW10	06/30/2023	4 - 12	<0.00198	<0.00397	<50.2	208	<50.2	208	208	197
SW11	07/05/2023	4 - 12	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	<50.1	339
SW12	06/30/2023	0 - 4	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	384
SW13	07/05/2023	0 - 4	<0.00201	<0.00402	<50.0	69.8	<50.0	69.8	69.8	469

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

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

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

ENSOLUM

.



APPENDIX A

Deferral Request Addendum

Received by OCD: 8/24/2023 2:08:51 PM⁴

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	NRM2004445859
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	1

Location of Release Source

Latitude _32.16472

Longitude -103.79703

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Poker Lake Unit 147	Site Type Well Location
Date Release Discovered 01/28/20	API# (if applicable) 30-015-31177 (Poker Lake Unit 147)

Unit Letter	Section	Township	Range	County
В	05	258	31E	Eddy

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 11.39	Volume Recovered (bbls) 10
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
into an unlined berm.	Poker Lake Unit 147 well unloaded overnight causing the Vacuum truck was dispatched and recovered 10 barrels hed for remediation activities.	

Page 17 of 268 3

/2023 2:08:51 PM		Page 18 of
State of New Mexico	Incident ID	NRM2004445859
Oil Conservation Division	District RP	
	Facility ID	
	Application ID	
		State of New MexicoIncident IDOil Conservation DivisionDistrict RPFacility ID

268

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? N/A
🗌 Yes 🖾 No	
If YES, was immediate r	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
N/A	

Initial Response

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

The source of the release has been stopped.

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

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

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

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

N/A

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

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

Printed Name: Kyle Littrell	Title: SH&E Supervisor
Signature:	Date:2/11/2020
email:Kyle_Littrell@xtoenergy.com	Telephone:
OCD Only	
Received by: Ramona Marcus	Date: 2/13/2020

NRM2004445859

Location:	Poker Lake Unit 147		
Spill Date:	1/28/2020		
	MAIN POOL		中华
Approximate Area =		783.00	sq. ft.
Average Saturation (or dept	h) of spill =	4.00	inches
Average Porosity Factor =		0.03	
Average Forosity ractor -	VOLUME OF LEAK		
Total Produced Water =		1.39	bbls
	TOTAL VOLUME OF LEAK		E h
Total Produced Water =		11.39	bbls
	VOLUME RECOVERED		-
		10.00	lhhls

Total Produced Water =

Received by OCD: 8/24/2023 2:08:51 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 20 0J 200
Incident ID	NRM2004445859
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

Page 3

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

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

Received by OCD: 8/24/2023 2:08 Form C-141 Page 4	8:51 PM State of New Mexico Oil Conservation Division		Incident ID District RP Facility ID Application ID	Page 21 of 268 NRM2004445859
regulations all operators are required public health or the environment. T failed to adequately investigate and	given above is true and complete to the d to report and/or file certain release noti The acceptance of a C-141 report by the C remediate contamination that pose a three 1 report does not relieve the operator of	fications and perform co DCD does not relieve the eat to groundwater, surface	rrective actions for rele operator of liability sho ce water, human health	ases which may endanger ould their operations have or the environment. In
Printed Name:K	Kyle Littrell	Title:SH&E S	upervisor	
Signature:	Cyle Littrell	Date: <u>11/23/2020</u>	_	
email: Kyle_Littrell@xt	oenergy.com	Telephone:	(432)-221-7331	
OCD Only				
Received by:		Date:		

Received by OCD: 8/24/2023 2:08:51 PM State of New Mexico

Detailed description of proposed remediation technique

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	NRM2004445859
District RP	
Facility ID	
Application ID	

Remediation Plan

Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: _____ Kyle Littrell Title: SH&E Supervisor Signature: _____ Date: ____11/23/2020___ email: _____ Kyle_Littrell@xtoenergy.com _____ Telephone: ____(432)-221-7331_____ OCD Only Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Jennifer Nobui Date: 03/04/2022

Page 5

Received by OCD: 8/24/2023 2:08:51 PM⁴

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 <u>Revised August 24, 2018</u> Submit to appropriate OCD District office

Page 23 of 268 3

Incident ID	NRM2004445859
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	1

Location of Release Source

Latitude _32.16472_

Longitude -103.79703

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Poker Lake Unit 147	Site Type Well Location
Date Release Discovered 01/28/20	API# (if applicable) 30-015-31177 (Poker Lake Unit 147)

Unit Letter	Section	Township	Range	County
В	05	258	31E	Eddy

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
X Produced Water	Volume Released (bbls) 11.39	Volume Recovered (bbls) 10
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
into an unlined berm.		the water tank to overflow 11.39 barrels of produced water els with 1.39 barrels remaining in the soil. A third party

/2023 2:08:51 PM		Page 24 of
State of New Mexico	Incident ID	NRM2004445859
Oil Conservation Division	District RP	
	Facility ID	
	Application ID	
	State of New Mexico	State of New MexicoIncident IDOil Conservation DivisionDistrict RPFacility ID

268

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? N/A	
🗌 Yes 🖾 No		
If YES, was immediate r	notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	
N/A		

Initial Response

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

The source of the release has been stopped.

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

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

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

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

N/A

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

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

Printed Name: Kyle Littrell	Title: <u>SH&E Supervisor</u>
Signature:	Date:2/11/2020
email:Kyle_Littrell@xtoenergy.com	Telephone:
OCD Only	
Received by: Ramona Marcus	Date: 2/13/2020

NRM2004445859

Location:	Poker Lake Unit 147	计传导计量站 上前百
Spill Date:	1/28/2020	
	MAIN POOL	
Approximate Area =		783.00 sq. ft.
Average Saturation (or dept	h) of spill =	4.00 inches
Average Porosity Factor =		0.03
Average i broshty i detor	VOLUME OF LEAK	
Total Produced Water =		1.39 bbls
	TOTAL VOLUME OF LEAK	꼬만한옥유지는
Total Produced Water =		11.39 bbls
	VOLUME RECOVERED	
Total Braducad Water -		10.00 bbls

Total Produced Water =

Received by OCD: 8/24/2023 2:08:51 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 26 of 26
Incident ID	NRM2004445859
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

Page 3

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

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

Received by OCD: 8/24/2023 2:08:51 PM Form C-141 State of New Mexico		Page 27 of 268		
Form C-141			Incident ID	NRM2004445859
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators a public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: Signature:	Information given above is true and complete to the are required to report and/or file certain release notionment. The acceptance of a C-141 report by the C tigate and remediate contamination that pose a three of a C-141 report does not relieve the operator ofKyle Littrell	ifications and perform co OCD does not relieve the eat to groundwater, surfa responsibility for compl Title: <u>SH&E S</u> Date: <u>11/23/2020</u>	prrective actions for rele operator of liability sho ce water, human health liance with any other feo	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by:		Date:		

Received by OCD: 8/24/2023 2:08:51 PM State of New Mexico

Detailed description of proposed remediation technique

Page 5

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	NRM2004445859
District RP	
Facility ID	
Application ID	

Remediation Plan

Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Signature: _____ Date: __11/23/2020__ email: _____ Kyle_Littrell@xtoenergy.com _____ Telephone: ____(432)-221-7331_____ OCD Only Received by: Date: Approved with Attached Conditions of Approval Denied Approved Deferral Approved Signature: Date:

WSP USA

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

November 25, 2020

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

Re: Deferral Request Poker Lake Unit 147 Incident Number NRM2004445859 Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) (formerly LT Environmental, Inc.), on behalf of XTO Energy, Inc. (XTO), presents the following Deferral Request detailing site assessment, soil sampling, and remediation activities at the Poker Lake Unit (PLU) 147 (Site) in Unit B, Section 05, Township 25 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and remediation activities was to address impacts to soil following the release of produced water at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Deferral Request, describing remediation that has occurred and requesting deferral of final remediation for Incident Number NRM2004445859 until the Site is reconstructed, and/or the well pad is abandoned.

RELEASE BACKGROUND

On January 28, 2020, a produced water tank overflowed, resulting in the release of approximately 11.39 barrels (bbls) of produced water into the unlined storage tank containment berm. A vacuum truck was dispatched to the Site to recover freestanding fluids, of which approximately 10 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on February 11, 2020 and was assigned Incident Number NRM2004445859.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321034103465501, located approximately 1.25 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 474 feet bgs and a total depth of 740 feet bgs. Within 3.5-mile radius, there are two New Mexico Office of the State Engineer (NMOSE) wells and three USGS wells that indicate a regional depth to groundwater greater than 100 feet bgs. NMOSE well

wsp

District II Page 2

C-03891 was most recently sampled in November 2015. NMOSE well C-03891 is located approximately 1.7 miles west of the Site and had a reported depth to water of 429 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated referenced well records are included in Attachment 1

The closest continuously flowing water or significant watercourse to the Site is an unnamed dry wash, located approximately 3,471 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). The Site receptors are identified on Figure 1.

During October 2020, in an effort to confirm depth to water in the area, a borehole (BH01) was advanced to a depth of 110 feet bgs via truck-mounted hollow stem auger. The borehole was located approximately 2,290 feet east of the Site. The location of borehole BH01 is provided on Figure 1. A WSP geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Attachment 2. The borehole was left open for over 72 hours to allow for potential slow infill of ground water. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned utilizing hydrated bentonite chips.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On February 21, 2020, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected two preliminary soil samples (SS01 and SS02) within the unlined containment berm at a depth of approximately 0.5 feet bgs to assess the extent of soil impacts at the ground surface. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride

District II Page 3

utilizing a calibrated photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positing System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit, and a photographic log is included in Attachment 3.

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

The laboratory analytical results for preliminary soil samples SS01 and SS02 indicated that BTEX, TPH-GRO/TPH-DRO, and TPH concentrations exceeded the Closure Criteria. Based on visible staining in the release area, field screening activities, and laboratory analytical results for the preliminary soil samples, excavation and delineation activities were warranted.

EXCAVATION AND DELINEATION SOIL SAMPLING ACTIVITIES

The following is a summary of the excavation and delineation activities conducted at the Site.

Excavation Activities

Between March 18, 2020 and June 24, 2020, WSP personnel were at the Site to oversee excavation of impacted soil as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples.

Eastern Excavation

Excavation activities were performed in the area around preliminary soil sample SSO1 using a track-mounted backhoe and transport vehicle. The excavation was located within the containment berm on the east side of the produced water tank. To direct excavation activities, LTE screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach[®] chloride QuanTab[®] test strips, respectively. The excavation was completed to an approximate depth of 7 feet bgs. Following removal of impacted soil to the extent possible, WSP collected 5-point composite soil samples every 200 square feet from sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing.

District II Page 4

The eastern excavation measured approximately 486 square feet. Composite soil samples FS01 through FS03 and FS03A were collected from the floor of the excavation from depths ranging from 7 feet to 7.5 feet bgs. Composite samples SW01 through SW03 and SW05 were collected from sidewalls of the excavation from depths ranging from ground surface to 7 feet bgs. The excavation soil samples were collected, handled, and analyzed as described above.

Laboratory analytical results for excavation samples FS01, FS02, FS03A, SW01, SW02, and SW05, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for floor sample FS03 and sidewall sample SW03 indicated that TPH and/or TPH-GRO/TPH-DRO concentrations exceeded the Closure Criteria. Additional soil was removed from the area around floor sample FS03 and subsequent floor sample FS03A was compliant with the Closure Criteria. Sidewall sample SW03 was collected immediately adjacent to the produced water tank. Further excavation of impacted soil beyond excavation sidewall sample SW03 was limited by the presence the active produced water tank. XTO safety policy restricts soil disturbing activities to a 2-foot radius of any on-site production equipment and pipelines. This XTO safety policy is established to protect workers and reduce the likelihood of compromising the foundation of the production equipment or pipelines. This policy was enforced where impacted soil was identified within 2 feet of the produced water tank.

Southwestern Excavation

Excavation activities were performed in the area around preliminary soil sample SS02 utilizing a hydro-vacuum. The excavation was located within the containment berm, in between the produced water tank and crude oil storage tanks and south of the oil tanks. The southwest excavation measured approximately 544 square feet. Following removal of impacted soil to the extent possible, WSP collected 5-point composite soil samples every 200 square feet from sidewalls and floor of the excavation. Composite soil samples FS04 through FS07, FS04A, and FS06A were collected from the floor of the excavation from depths ranging from 3 feet to 7 feet bgs. Composite samples SW04 and SW06 through SW10 were collected from sidewalls of the excavation from depths ranging from ground surface to 7 feet bgs. The excavation soil samples were collected, handled, and analyzed as described above.

Laboratory analytical results for excavation samples FS07, SW08, SW09, and SW10, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for floor samples FS04, FS05, and FS06 and sidewall samples SW04, SW06, and SW07 indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria. Additional soil was removed from the areas around samples SW06 and FS06 and subsequent samples FS06A,

District II Page 5

SW09, and SW10 were compliant with the Closure Criteria. Further excavation of impacted soil beyond sidewall samples SW04 and SW07 and floor samples FS04 and FS05 was limited by the presence the active oil tanks and pipelines. XTO safety policy restricts soil disturbing activities to a 2-foot radius of any on-site production equipment and pipelines.

Due presence of active equipment and safety restrictions, further excavation of impacted soil could not be completed in the eastern or southwestern excavation in the areas represented by samples SW03, SW04, SW07, FS04, and FS05. To treat the impacted soil left in place, a 10% solution of MicroBlaze[®] was applied to the sidewalls and floor of the excavations to enhance bioremediation of residual hydrocarbons in these areas. The excavation extents and excavation soil sample locations are presented on Figure 3.

The combined excavation extents measured approximately 1,029 square feet. A total of approximately 152 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

Delineation Activities

Between March 19, 2020 and May 28, 2020, WSP personnel were at the Site to oversee delineation activities. The delineation activities were completed in coordination with excavation activities to define the lateral and vertical extent of impacted soil and delineate the extent of impacted soil remaining in-place.

Potholes PH01 through PH04 were advanced via track-mounted backhoe around the perimeter of the containment berm to depths ranging from 4 feet to 7 feet bgs. Delineation soil samples were collected from the potholes from depths ranging from 1 foot to 7 feet bgs.

Boreholes BH01 through BH03 were advanced within the containment berm release extent to depths ranging from 4 feet to 8 feet bgs. Borehole BH01 was advanced via hand auger between the produced water tank and the crude oil tanks to a depth of approximately 4 feet bgs before encountering auger refusal. Borehole BH02 was advanced south of the oil tanks via hydrovacuum to a depth of approximately 8 feet bgs. Borehole BH03 was advanced via hand auger east of the produced water tank to a depth of approximately 8 feet bgs. Delineation soil samples were collected from the boreholes from depths ranging from 2 feet to 8 feet bgs.

Soil from the potholes and boreholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach[©] chloride QuanTab[©] test strips, respectively. The delineation

District II Page 6

soil samples were collected, handled, and analyzed as described above. Field screening results and observations for each pothole and borehole were logged on lithologic/soil sampling logs, which are included in Attachment 2. The boreholes, potholes, and delineation soil sample locations are presented on Figure 4.

Laboratory analytical results for delineation soil samples BH01/BH01A, BH02/BH02A, and BH03, collected from depths ranging from 2 feet to 7 feet bgs, indicated that TPH and/or TPH-GRO/TPH-DRO exceeded the Closure Criteria. Laboratory analytical results for final delineation soil samples BH02B and BH03A, collected at a depth of 8 feet bgs, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with Closure Criteria and defined the vertical extent of impacted soil.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH04 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with Closure Criteria and defined the lateral and vertical extent of the release.

The delineation samples from potholes PH01 through PH04 and borehole samples BH02B and BH03A provide lateral and vertical delineation of the impacted soil remaining in place within the containment berm. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are provided in Attachment 4.

DEFERRAL REQUEST

The release occurred in an area of active production equipment and pipelines. Approximately 152 cubic yards of impacted soil were excavated via backhoe, hand shoveling, and hydro-vacuum; however, residual impacted soil was left in place immediately surrounding active storage tanks and pipelines for compliance with XTO safety policy regarding earth moving activities within 2 feet of active production equipment and pipelines. Laboratory analytical results for excavation samples SW03, SW04, SW07, FS04, and FS05 indicated that soil with TPH-GRO/TPH-DRO and TPH concentrations exceeding the Closure Criteria was left in place. These areas were treated with multiple applications of MicroBlaze[®] to enhance bioremediation of the impacted soil remaining in-place.

The impacted soil remaining in place is delineated vertically and laterally by excavation soil samples FS01 through FS03, FS07, FS06A, SW01, SW02, SW05, and SW08 through SW10, collected from the sidewalls and floor of the final excavation extent, delineation soil samples BH02B, BH03A, and delineation soil samples collected from potholes PH01 through PH04. An estimated 54 cubic yards of impacted soil remains in place, assuming a maximum 7-foot depth based on the excavation and delineation soil samples listed above, that were compliant with the Closure Criteria. The deferral area and associated delineation samples are identified on Figure 5.

NSD

District II Page 7

XTO requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first. LTE and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The majority of the released fluids were recovered during initial response activities, impacted soil remaining in place is limited to the area immediately surrounding active production equipment and pipelines, no saturated soil remains in-place, and depth to groundwater was confirmed to be greater than 100 feet at the Site. XTO requests deferral of final remediation for Incident Number NRM2004445859. Upon approval of this Deferral Request, XTO will backfill the on-pad excavations with material purchased locally and recontour the Site to match pre-existing Site conditions.

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

Sincerely,

WSP USA Inc.

Elizabeth Naka

Elizabeth Naka Assistant Consultant

Ashley L. Ager

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

cc: Kyle Littrell, XTO Robert Hamlet, NMOCD Victoria Venegas, NMOCD Jim Amos, Bureau of Land Management

Attachments:

- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Figure 4 Delineation Soil Sample Locations
- Figure 5 Deferral Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Referenced Well Records
- Attachment 2 Lithologic/Sampling Log
- Attachment 3 Photographic Log

Received by OCD: 8/24/2023 2:08:51 PM



District II Page 8

Attachment 4 Laboratory Analytical Reports
FIGUR



Released to Imaging: 1/5/2024 3:07:1174PMM









Released to Imaging: 1/5/2024 3:07:1174PMM

P:\XTO Energy\GIS\MXD\012920024_PLU 147\012920024_FIG05_DEFERRAL_2020.mxd

TABLES

.

Table 1

Soil Analytical Results Poker Lake Unit 147 Incident Number NRM2004445859 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples					-	-	-	-		
SS01	02/21/2020	0.5	2.46	1,120	3,030	13,900	966	16,900	17,900	543
SS02	02/21/2020	0.5	0.776	291	2,930	23,800	1,560	26,700	28,300	867
Eastern Excavation	Samples									
FS01	03/18/2020	7	< 0.00201	0.0426	<50.0	77.0	<50.0	77.0	77.0	312
FS02	03/18/2020	7	< 0.00200	0.139	<49.8	526	<49.8	526	526	341
FS03	03/18/2020	7	< 0.00202	0.249	85.5	974	56.7	1,060	1,120	306
FS03A	04/08/2020	7.5	< 0.00200	< 0.00200	<50.0	231	<50.0	231	231	412
SW01	03/18/2020	0 - 7	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	159
SW02	03/18/2020	0 - 7	< 0.0101	< 0.0101	<50.1	<50.1	<50.1	<50.1	<50.1	15.2
SW03	03/18/2020	0 - 7	< 0.0714	22.5	1,440	4,850	225	6,290	6,520	110
SW05	04/08/2020	0 - 7	< 0.00201	< 0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	39.6
Southwestern Excav	ation Samples									
FS04	03/19/2020	4	< 0.0102	23.7	3,270	8,870	334	12,100	12,500	206
FS04A	05/27/2020	4	< 0.00201	0.0224	<50.0	1,130	78.3	1,130	1,210	915
FS05	04/09/2020	3	< 0.0278	61.8	1,590	4,750	192	6,340	6,530	605
FS06	05/06/2020	4	< 0.00201	1.30	283	2190	113	2,470	2,590	136
FS06A	05/27/2020	6	< 0.00202	< 0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	586
FS07	06/24/2020	7	< 0.00198	< 0.00198	<49.8	378	<49.8	378	378	62.7
SW04	03/19/2020	0 - 4	0.0106	16.1	714	2,440	105	3,150	3,260	260
SW06	04/09/2020	0 - 3	< 0.0278	28.0	949	4,540	227	5,490	5,720	313
SW07	04/09/2020	0 - 3	< 0.0278	30.9	2,050	8,820	416	10,900	11,300	367
SW08	05/06/2020	0 - 4	< 0.00198	< 0.00198	<49.9	290	<49.9	290	290	93.7
SW09	05/14/2020	0 - 6	< 0.00201	< 0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	199
SW10	05/14/2020	0 - 7	< 0.00200	< 0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	291

Table 1

Soil Analytical Results Poker Lake Unit 147 Incident Number NRM2004445859 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	losure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Sample	S									
BH01	05/27/2020	2	< 0.00629	< 0.00629	63.4	1,960	95.7	2,020	2,120	271
BH01A	05/27/2020	4	< 0.00990	0.432	596	8,240	451	8,840	9,290	52.7
BH02	05/28/2020	5	< 0.00962	1.70	783	9,350	441	10,100	10,600	110
BH02A	05/28/2020	7	< 0.00199	0.0948	<49.9	1,010	84.2	1,010	1,090	603
BH02B	06/10/2020	8	< 0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	463
BH03	05/28/2020	б	< 0.00990	3.54	778	3,820	147	4,600	4,750	74.9
BH03A	05/28/2020	8	< 0.00990	<0.00990	<50.1	663	60.0	663	723	187
PH01	03/19/2020	1	< 0.00199	<0.00199	<49.9	120	62.7	120	183	54.9
PH01A	03/19/2020	4	< 0.00199	<0.00199	<50.0	77.4	<50.0	77.4	77.4	821
PH01B	03/19/2020	7	< 0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	284
PH02	03/19/2020	1	< 0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	<9.98
PH02A	03/19/2020	4	< 0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	202
PH02B	03/19/2020	7	< 0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	1,020
PH03	03/19/2020	1	< 0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	22.3
PH03A	03/19/2020	4	< 0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	215
PH03B	03/19/2020	7	< 0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	352
PH04	04/08/2020	2	< 0.00200	0.0326	<49.8	<49.8	<49.8	<49.8	<49.8	19.3
PH04A	04/08/2020	4	< 0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	437

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

Text Impacted soil has been excavated

.

Released to Imaging: 1/5/2024 3:07:0174PMM

USGS 320956103503001 245.30E.36.33333

	,	vailable data fi	or this site	SUMMARY OF ALL AVAILABLE DATA - GO
ell Site				
DESCRIPTION:				
Latitude 32°09'56", Longitude 103°50'30 Eddy County, New Mexico , Hydrologic Ur Well deptr: 480 feet Land surface altitude: 3,408 feet above N Well completed in "Rustler Formation" (31 AVAILABLE DATA:	nit 13060011 AVD88.	quifer		
Data Type	Begin Date	End Date	Count	
Field groundwater-level measurement			4	
Revisions	Unavailable (site:0) (times	series:0)	
REVISIONS	Unavailable (site:u) (times	series:0)	



USGS 320956103503001 245,30E,36,33333





USGS 320956103503001 245.30E.36.33333

•

USGS 321034103465501 245.31E.33.231113

Available data for t	this site SUMMARY OF ALL AVAILABLE DATA * 60
ell Site	
DESCRIPTION: Latitude 32°10'38.2°, Longitude 103°46'53.0° NAD83 Eddy County, New Mexico , Hydrologic Unit 13070001 Weil depth: 740 feet Land surface altitude: 3,461.00 feet above NGVD29. Well completed in "Rustler Formation" (312RSLR) local aquifer AVAILABLE DATA: Data Type Begin Date End Date C	Count
Field groundwater-level measurements 1959-03-12 1959-03-12 Revisions Unavailable (site:0) (timeser	1 (les:0)
1.1.1. S.Z.	
OPERATION: Record for this site is maintained by the USGS New Mexico Water Science	- Contra
Email questions about this site to <u>New Mexico Water Science</u>	ter-Data Inguiries
lack to Google Earth	i Winn (mus enterdalaungs.gor) inn (millioning) / USSS Groundwater for USA: Water Levels - 1 sites 🖉 🌘 🕞 😧 🚱 Open in Microsof
Click to hide News Bulletins	
Introducing The Next Generation of USGS Water Data for the Nation	
and the second of the states	
COUDOWATER IEVELS FOR THE MATION	
arch Results 1 sites found	
arch Results 1 sites found	
arch Results 1 sites found	
arch Results 1 sites found site_no list = • 321034103465501 Minimum number of levels = 1	
arch Results 1 sites found site_no list = • 321034103465501 Minimum number of levels = 1	
arch Results 1 sites found site_no list = • 321034103465501 Minimum number of levels = 1 re file of selected sites to local disk for future upload	
arch Results 1 sites found site_no list = • 321034103465501 Minimum number of levels = 1 re file of selected sites to local disk for future upload	this site Groundwater: Field measurements * GO
arch Results 1 sites found site_no list = • 321034103465501 Minimum number of levels = 1 te file of selected sites to local disk for future upload GS 321034103465501 24S.31E.33.231113 Available data for the ty County, New Mexico	this site Groundwater: Field measurements • GO Output formats
arch Results 1 sites found site_no list = • 321034103465501 Minimum number of levels = 1 re file of selected sites to local disk for future upload iGS 321034103465501 24S.31E.33.231113 Available data for the dy County, New Mexico dy County, New Mexico dy County, New Mexico	Output formats
arch Results 1 sites found site_no list = • 321034103465501 Minimum number of levels = 1 re file of selected sites to local disk for future upload IGS 321034103465501 24S.31E.33.231113 Available data for the dy County, New Mexico drologic Unit Code 13070001 itude 32°10'38.2°, Longitude 103°46'53.0° NADB3 dy Surface levelation 3.461.00 feet above NGVD29	Output formats Table of data Table separated data
arch Results 1 sites found site_no list = • 321034103465501 Minimum number of levels = 1 re file of selected sites to local disk for future upload iGS 321034103465501 24S.31E.33.231113 Available data for the dy County, New Mexico frologic Unit Code 13070001 ifude 32°10'38.2°, Longitude 103°46'53.0° NADB3 rd-surface elevation 3,461.00 feet above NGVD29 e depth of the well is 740 feet below land surface.	Output formats Table of data Tableseparated data Graph of data
site_no list = • 321034103465501 Minimum number of levels = 1 re file of selected sites to local disk for future upload GS 321034103465501 24S.31E.33.231113 Available data for the dy County, New Mexico drologic Unit Code 13070001 itude 32°10'38.2°, Longitude 103°46'53.0° NADB3 rd-surface elevation 3,461.00 feet above NGVD29 e depth of the well is 740 feet below land surface.	Output formats Table of data Table separated data
site_no list = • 321034103465501 Minimum number of levels = 1 re file of selected sites to local disk for future upload GGS 321034103465501 24S.31E.33.231113 Maximized and a selected sites to local disk for future upload GGS 321034103465501 24S.31E.33.231113 Maximized a selected sites to local disk for future upload GGS 321034103465501 24S.31E.33.231113 Maximized a selected sites to local disk for future upload GGS 321034103465501 24S.31E.33.231113 Maximized a selected sites to local disk for future upload GGS 321034103465501 24S.31E.33.231113 Maximized a selected site of the s	Output formats Table of data Tablesenarated data Graph of data Reselect period
site_no list = • 321034103465501 Minimum number of levels = 1 re file of selected sites to local disk for future upload GS 321034103465501 24S.31E.33.231113 Available data for the dy County, New Mexico drologic Unit Code 13070001 itude 32°10'38.2°, Longitude 103°46'53.0° NADB3 rd-surface elevation 3,461.00 feet above NGVD29 e depth of the well is 740 feet below land surface. Is well is completed in the Rustler Formation (312RSLR) local aquifer.	Output formats Table of data Tableseparated data Graph of data
site_no list = . 321034103465501 Minimum number of levels = 1 re file of selected sites to local disk for future upload SGS 321034103465501 24S.31E.33.231113 Available data for the dy County, New Mexico drologic Unit Code 13070001 titude 32°10'38.2°, Longitude 103°46'53.0° NADB3 rid-surface elevation 3,461.00 feet above NGVD29 e depth of the well is 740 feet below land surface. Is well is completed in the Rustler Formation (312R5LR) local aquifer.	Output formats Table of data Tableseparated data Graph of data Reselect period 9 201894189403981 245, 312, 231113
site_no list = . 321034103465501 Minimum number of levels = 1 re file of selected sites to local disk for future upload SGS 321034103465501 24S.31E.33.231113 Available data for the dy County, New Mexico drologic Unit Code 13070001 fitude 32°10'38.2°, Longitude 103°46'53.0° NADB3 nd-surface elevation 3,461.00 feet above NGVD29 e depth of the well is 740 feet below land surface. Is well is completed in the Rustler Formation (312RSLR) local aquifer.	Output formats Table of data Table of data Table separated data Graph of data Reselect period 5 521854185485981 245,515,33,23113 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,
site_no list = . 321034103465501 Minimum number of levels = 1 re file of selected sites to local disk for future upload SGS 321034103465501 24S.31E.33.231113 Available data for the dy County, New Mexico drologic Unit Code 13070001 itude 32°10'38.2°, Longitude 103°46'53.0° NADB3 itude 32°10'38.2°, Longitude 103°46'53.0° NADB3 defsuit of the well is 740 feet below land surface. Is well is completed in the Rustler Formation (312RSLR) local aquifer.	Output formats Table of data Table of data Table colspanded data Graph of data Graph of data Baselect period 5 321854185485981 245, 511, 33, 23113 2966, 99 2986, 99 2 2986, 98 2 2986, 98 2 2986, 98 2 2986, 98 2 2986, 98 2
site_no list = . 321034103465501 Minimum number of levels = 1 re file of selected sites to local disk for future upload GS 321034103465501 24S.31E.33.231113 Available data for th dy County, New Mexico drologic Unit Code 13070001 itude 32°10'38.2°, Longitude 103°46'53.0° NADB3 ind-surface elevation 3,461.00 feet above NGVD29 edepth of the well is 740 feet below land surface. Is well is completed in the Rustler Formation (312RSLR) local aquifer. 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65	Output formats Table of data Table of data Table separated data Graph of data Reselect period 5 521854185485981 245,515,33,23113 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2986,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,99 2886,
site_no list = • 321034103465501 Minimum number of levels = 1 re.file of selected sites to local disk for future upload GGS 321034103465501 24S.31E.33.231113 Available data for H dy County. New Mexico drologic Unit Code 13070001 distude 32*10'38.2*, Longitude 103*46'53.0* NAD83 dró-surface elevation 3,461.00 feet above NGVD29 e depth of the well is 740 feet below land surface. s well is completed in the Rustler Formation (312RSLR) local aquifer.	Output formats Table of data Table of data Table colspanded data Graph of data Graph of data Baselect period 5 321854185485981 245, 511, 33, 23113 2966, 99 2986, 99 2 2986, 98 2 2986, 98 2 2986, 98 2 2986, 98 2 2986, 98 2
site_no list = • 321034103465501 Minimum number of levels = 1 re file of selected sites to local disk for future upload SGS 321034103465501 24S.31E.33.231113 Maximized atta for the data for the d	Output formats Table of data Table of data Table of data Graph of data Baselect period 9 321854189489981 245,511,39,293113 2986,99 2986,89 2986,80 2986,80
site_no list = . 321034103465501 Minimum number of levels = 1 ve file of selected sites to local disk for future upload SGS 321034103465501 24S.31E.33.231113 Available date for tl dy County, New Mexico drologic Unit Code 13070001 titude 32*0'38.2*, Longitude 103*46'53.0* NADB3 nd-surface elevation 3,461.00 feet below land surface. Is well is completed in the Rustler Formation (312RSLR) local aquifer. 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.65 474.	Output formats Table of data Table of data Table of data Graph of data B solect period 9 soles/e89/e99e1 245,516,337,23113 2966,99 2966,99 2966,79 2966,79 2966,78 2966,78
site_no list = . 321034103465501 Minimum number of levels = 1 re file of selected sites to local disk for future upload SGS 321034103465501 24S.31E.33.231113 Available data for t dy County, New Mexico drologic Unit Code 13070001 Hudde 32*10'38.2*, Longitude 103*46'53.0* NADB3 Hd sufface elevation 3,461.00 feet above NGVD29 e depth of the well is 740 feet below land sufface. Is well is completed in the Rustler Formation (312RSLR) local aquifer.	Output formats Table of data Table of data Table of data Graph of data B solect period 2 soles/segregated data
earch Results 1 sites found site_no list = • 321034103465501 Minimum number of levels = 1 ve file of selected sites to local disk for future upload SGS 321034103465501 24S.31E.33.231113 Available data for the dy County, New Mexico drologic Unit Code 1307001 titude 32*10'38.2*, Longitude 103*46'53.0* NADB3 titude 32*10'38.2*, Longitude 103*46'30*, NADB3 titude 32*10'38.2*, Longitude 103*46'53.0* NADB3 titude 32*10'38.2*, Longitude 103*46'53.0* NADB3 titude 32*10'38.2*, Longitude 103*46'53.0* NADB3 titude 32*10'38.2*, Longitude 103*46'53.0* NADB3 titude 32*10'38.2*, Longitu	Output formats Table of data Table of data Table of data Graph of data B solect period 9 soles/e89/e99e1 245,516,337,23113 2966,99 2966,99 2966,79 2966,79 2966,78 2966,78
321034103465501 Minimum number of levels = 1 ve file of selected sites to local disk for future upload GGS 321034103465501 24S.31E.33.231113 Available data for If dy County, New Mexico drologic Unit Code 13070001 titude 32*10'38.2*, Longitude 103*46'53.0* NADB3 nd-surface elevation 3,461.00 feet balows NGVD29 e depth of the well is 740 feet below land surface. Is well is completed in the Rustler Formation (312RSLR) local aquifer. y 474.09 y 474.09 y 474.09 y 474.39 y	Output formats Table: of data

- Period of approved data

							E 3=SV	V 4=SE)	(NAD)	33 UT	'M in meters)	
Well Tag	POD	Number	Q64	Q16	Q4	Sec	Tws	Rng		x	Y	
	C 0	3716 POD1	4	2	2	02	25S	30E	6090	69	3559211 🥥	
Driller Lice	nse:	1229	Driller	Con	apar	iy:	CA	RTER'S V	VELL	DRI	LLING	
Driller Nar	ae:	RICHARD CAR	TER.									
Drill Start	Date:	02/05/2014	Drill F	inish	Dat	te:	0	3/03/2014		Plu	g Date:	
Log File Da	te:	03/12/2014	PCWI	Rcv I	Date	:				Sou	irce:	Shallow
Pump Type			Pipe D	ischa	arge	Size:				Est	imated Yield:	50 GPM
Casing Size	:		Depth	Well			6	00 feet		Dep	pth Water:	425 feet

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

2/24/20 1:56 PM

POINT OF DIVERSION SUMMARY

New Mexico Office of the State Engineer Point of Diversion Summary

Well Tag		DD Number	(Q	quart 64 0	ers ar Q16 (e sr 24	nallest to Sec Tv	lar NS	Rng	X	M in meters) Y	
	С	03891 POD1		4	4	2	01 25	55	30E 6	10608	3558890	9
Driller Licens		1723 RANDY STEWAF	Driller	Co	mpa	ny	: SBQ2 CO.	2,	LLC DBA S	TEWAF	RT BROTH	ERS DRILLING
Drill Start Da		11/10/2015	Drill F				: 1	1/	14/2015	-	Date:	
Log File Date	e:	12/04/2015	PCW			-	Sizo			Sour	ce: nated Yield	Shallow
Pump Type: Casing Size:		6.13	Pipe I Depth		-	ec		26	5 feet		h Water:	429 feet
		0.15	Deptil	we			0) leel	Dept	ii water.	423 1661
v	late	r Bearing Stratific	ations	1	То	р	Bottom	า	Descriptio	n		
					42	20	450	C	Sandstone	/Gravel/	Conglome	rate
					45	50	460)	Sandstone	/Gravel/	Conglome	rate
					46	60	490)	Sandstone	/Gravel/	Conglome	rate
					49	0	500)	Sandstone	/Gravel/	Conglome	rate
					50	0	530)	Sandstone	/Gravel/	Conglome	rate
					53	80	635	5	Sandstone	/Gravel/	Conglome	rate
		Casing Perfo	rations	:	То	р	Bottom	ı				
					46	60	635	5				

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



New Mexico Office of the State Engineer Point of Diversion Summary

			(quar	ters are	1=NW	2=NE 3	=SW 4=SI	E)		
			(qua	rters ar	e small	est to la	rgest)	(NAD83 UT	ΓM in meters)	
Well Tag	P	OD Number	Q64	Q16 0	Q4 Se	ec Twe	s Rng	Х	Y	
	С	03716 POD1	4	2	2 0	2 258	30E	609069	3559211	9
Driller Licen	se:	1229	Driller C	ompa	ny: (CARTE	ER'S WE	ELL DRILLI	NG	
Driller Name	: :	RICHARD CAR	TER							
Drill Start Da	ate:	02/05/2014	Drill Fini	sh Da	te:	03/	/03/2014	l Plug	Date:	
Log File Dat	e:	03/12/2014	PCW Rc	v Date	: :			Sour	ce:	Shallow
Pump Type:			Pipe Dis	charg	e Siz	e:		Estir	nated Yiel	d: 50 GPM
Casing Size	:		Depth W	ell:		60) feet	Dept	h Water:	425 feet
······	Nate	er Bearing Stratif	ications:		•	ottom	•			
				44	2	600	Sandst	one/Gravel	/Conglome	rate

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

ceive	a by OC	D: 8/24	1/2023	2:08:51	WSP			BH or	PH Name:	Date:	Page 54
								BH01		10/8/2020	
				508	West Ste	evens Stre	eet	Site Na	ame:	PLU 147	
				Carlst	ad, New I	Mexico 8	8220	RP or 1	ncident Number:	NRM2004445859	
								LTE Jo	b Number: TE01	2920024	
		LITH	OLOG	IC / SOI	L SAMP	LING LO)G	Logged	l By: WM	Method: HAS	
Lat/Lo					Field Scree				iameter:	Total Depth:	
	634,-103.7	89456			Chloride, I	PID		8 1/4'		110.4'	
Comm	ents:						y .				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		L	ithology/Remarks	
						0		no odor		um grained, well graded, fev	
					-	4	CCHE	CALICHE/with no odor	n gravel, dry, t	an-brown, poorly consolidat	ted, no stain,
					-	10					
					-	Ē					
					.	20	SWSM	SAND, moist. 1	ed-brown. sor	ne silt, well graded, mediun	n grainded, no
					-			stain, no odor	,	, <u> </u>	J,
					-	24	CL	CLAY, moist, 1 odor	naroon, cohes	ive, high plasticity, trace sar	nd, no stain, no
					-	30					
					-	35	SPSC	SAND, moist, 1 odor	ed, fine graine	ed, poorly graded, some clay	y, no stain, no
					-	40		SAND, moist, l no odor	prown-red, lar	ge grained, well graded, few	v silt, no stain,
					-	+ +					
						50					
					-	54	SWSC	SAND, moist, l odor, no stain	prown-red, me	dium grained, well graded,	some clay, no
					-	60					
					-	70					
					-	[
					-	80					
					-	+	SWSC	grain size shift	to large		
					-	90	SWSC	caliche fragmer	nts present		
					- - -	100					
					-	110					

_	eu by OC	D: 8/24	/2023	3 2:08:51	PM				BH or PH Name:		Date:	Page 55
				И	/SP USA				PH01		3/19/2020	
				508 Wes Carlsbad, N	t Stevens	Street			Site Name:	PLU 147	I	
			(Carlsbad, N	lew Mexic	co 88220			RP or Incident Numbe		NRM2004445859	
									LTE Job Number:			
		LITH	OLOG	GIC / SOI	L SAMP	LING LO)G		Logged By: Fatima Sn	nith	Method:	
_at/Lo	ong:				Field Scree				Hole Diameter:		Total Depth:	
					Chloride, I						×	
Comm	ients:											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			Lithology/	Remarks	
	<173	0.1	N	PH01 PH01A	1'					_	ly graded, fine-ver	
	274	1.6	Ν	PH01B		5 6 7		Caliche	dry tan-off white	consolidate	ed, no stain, no odo	ЭГ
	274	1.0	1	PHUIB		9 10 11			лу, tan-orr white,	consolidate	eu, no stain, no odo	21

Released to Imaging: 1/5/2024 3:070174PMM

ceive	ed by OC	D: 8/24	1/2023	3 2:08:51 1 M	PM VSP USA				BH or PH Name:	Date:	Page 56
		4 B							PH02	3/19/2020	
				508 Wes Carlsbad, N	t Stevens	Street				U 147	
				Jansuau, H	EW WEAR	.0 00220			RP or Incident Number:	NRM2004445859	
									LTE Job Number:	T	
		LITH	OLOG	GIC / SOII)G		Logged By: Fatima Smith	Method:	
Lat/Loi	ng:				Field Scree				Hole Diameter:	Total Depth:	
Comme	onto:				Chloride, F	PID					
UIIIII	ents.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lith	ology/Remarks	
	<173	0.4	N	PH02	1'			Silty San	d, moist, reddish browi	n, poorly graded, fine-ver	ry fine
	173	0.5	N	PH02A	4'			Caliche,	dry, tan-off white, cons	solidated, no stain, no od	or
	929	0.2	N	PH02B		5 6 7 7		Caliche,	dry, tan-off white, cons	solidated, no stain, no od	or
		0.2				- 8 - 8 - 9 - 10 - 11			lly, tail-ori winte, com		
						12					

Released to Imaging: 1/5/2024 3:070174PMM

ceive	ed by OC	D: 8/24	/2023	3 2:08:51 1	PM WSP (USA			BH or PH Name:	Date:	Page 57
									PH03	3/19/2020	
				508 Carlsh	West Ste ad, New I	vens Stre	et 9220			J 147	
				Ganow	au, new.	Mexico c	0220		RP or Incident Number:	NRM2004445859	
			27.0(- ~ +) (D)				LTE Job Number:		
· / ·		LITH	OLOG	GIC / SOII)G		Logged By: Fatima Smith	Method:	
Lat/Lo	ng:				Field Scree Chloride, F				Hole Diameter:	Total Depth:	
Comm	ents:				Cinoriae, 1					1	
				.							
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)			Litho	logy/Remarks	
			├──┦		 ,	0	<u> </u>				
	<173	1.1	N	PH03	1'			Silty San	d, moist, reddish brown,	, poorly graded, fine-ve	ry fine
						2					
	207	0.6	Ν	РНОЗА	4'	4		Caliche,	dry, tan-off white, consc	olidated, no stain, no oc	lor
		1.1	N	РНОЗВ	7' _	- 7 - 7 - 8		Caliche,	dry, tan-off white, consc	olidated, no stain, no oc	lor
						9 10 11					
						12	1				

Released to Imaging: 1/5/2024 3:070174PMM

ceive	d by OC	D: 8/24	72023	2:08:51	PM WSP (BH or PH Name:	Date:	Page 5
									PH04	4/8/2020	
				508	West Ste ad, New I	vens Stre	eet		Site Name: F	PLU 147	
				Carlsb	ad, New I	viexico 8	8220		RP or Incident Number:	NRM2004445859	
									LTE Job Number:		
		LITH	OLOG	GIC / SOII	L SAMPI	LING LO) G		Logged By: RM	Method:	
.at/Lor	ıg:				Field Scree	ning:			Hole Diameter:	Total Depth:	
					Chloride, P	PID					
Comme	ents:										
Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lit	hology/Remarks	
	320 <124 <124 1,100	0.9 1.5 0.2 0.3	Ñ	 № РН04 РН04А РН04В РН04С 	(ft bgs)	$ \begin{bmatrix} 0 \\ 0 \\ - 1 \\ - 2 \\ - 3 \\ - 4 \\ - 5 \\ - 6 \\ - 7 \\ - 8 \\ - 9 \\ - 10 \\ - 10 $	USU	SP-SM, t SP-SM, t SIlty San	prown prown		
						10 10 11					
						- 12					

		. 2023	3 2:08:51 1	WSP	USA		BH or PH Name:		Date:	Page 5
			500			not	BH01		5/28/2020	
			508 Carlsh	West Ste ad, New I	Mexico 8	8220	Site Name:	PLU 147		
							RP or Incident Number: NRM2004445859 LTE Job Number: Incident Number:			
	TITT			CAMD						
		JLUG	GIC / SOI	Field Scree		JG	Logged By: JH		Method:	
Lat/Long:				Chloride, F			Hole Diameter:		Total Depth: 4'	
Comments:				Chilofide, I	ID				7	
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Lithology/	Remarks	
dry 212	566.9	yes	BH01	2'	2	SM	SAND, dry, brown, odor,	staining		
dry 248	478.3	yes	BH01A	4'	4	SM	SAND, dry, brown, odor,	staining		

				2:08:51	WSP	JSA		BH or PH Nam	e:	Date:	Page 60
				508	West Ste	vens Stre	⊳¢†	BH02 Site Name:	PLU 147	5/28/2020-6/10/2020	
				Carlsb	West Ste ad, New I	Mexico 8	8220	RP or Incident		NRM2004445859	
							LTE Job Numb				
		TTTT		GIC / SOII	CANADI	INCLO				Method:	
			OLUG	FIC / 5011			G	Logged By: JH			
Lat/Lor	ıg:				Field Scree Chloride, P			Hole Diameter:		Total Depth: 8'	
Comme	ents:				cinoriae, r			I		Ľ	
		r									
Molsture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology	/Remarks	
	0			01			n				
					<u> </u>	0					
					-	-					
					-	-					
dry	212	588.6	yes	BH02	5'	5	SM	SAND, dry, brown, oc	lor, staining		
						-					
						-					
dry	584	41.6	yes	BH02A	7'	7	SM	SAND, dry, brown, oc	lor, staining		
-			-					• · · · · ·	e		
,	716	10.1		DUOCD			C3.4				
dry	716	10.1	no	BH02B	8'	8	SM	SAND, dry, brown, so	ome silt and gra	vel, no odor, no staining	
						-					
					-	-					
						-					
					-	-					
						-					
						5					
					-	-					
					-	-					
					-	6					
					-						
					-	7					
						/					
					-	-					
					_	8					
					-	-					
						-					
					-	9					
					_	_					
					-	10					
						10					
					-	-					
					_	11					
					-	-					
						-					
					-	12					

				WSP			BH03	5/28/2020			
			508	West Ste	vens Stre	eet		PLU 147			
			Carlst	ad, New I	Mexico 8	8220	RP or Incident Number:				
							LTE Job Number:				
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: JH	Method:				
Lat/Long:				Field Scree			Hole Diameter:	Total Depth:			
~				Chloride, F	PID			8'			
Comments:											
Molsture Content Chloride	(ppm) Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol	L	ithology/Remarks			
dry 15	52 1022	yes	BH03	6'	0	CHCE	CALICHE, dry, white-tan, oc	lor, staining			
dry 24	8 148.1	yes	BH03A	8'	8	CHCE	CALICHE, dry, white-tan, or	lor, staining			

Released to Imaging: 1/5/2024 3:07:174PMM

vsp

PHOTOGRAPHIC LOG								
XTO Energy, Inc.	Poker Lake Unit 147	NRM2004445859						
	Eddy County, New Mexico							



Photo No.	Date	UCED
2	February 21, 2020	VCED LA
View of staining	in center of unlined	
	in center of unlined	

wsp

PHOTOGRAPHIC LOG								
XTO Energy, Inc.	Poker Lake Unit 147	NRM2004445859						
	Eddy County, New Mexico							



Photo No.	Date	
4	April 8, 2020	and and
	vac excavation on of tank battery.	

vsp

PHOTOGRAPHIC LOG								
XTO Energy, Inc.	Poker Lake Unit 147	NRM2004445859						
	Eddy County, New Mexico							





vsp

PHOTOGRAPHIC LOG								
XTO Energy, Inc.	Poker Lake Unit 147	NRM2004445859						
	Eddy County, New Mexico							



Photo No.	Date	
8	October 8, 2020	
View of location	on of BH01 along	
lease road that	leads to well pad	
	northwest.	

Released to Imaging: 1/5/2024 3:07:0174PMM

for LT Environmental, Inc.

Project Manager: Dan Moir

PLU 147

012920024

26-FEB-20

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

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



26-FEB-20

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

Reference: XENCO Report No(s): 653408 **PLU 147** Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 653408. 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. 653408 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,

Jession Vermer

Jessica Kramer **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



TORIES

Sample Cross Reference 653408

PLU 147

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	02-21-20 12:00	0.5 ft	653408-001
SS02	S	02-21-20 12:05	0.5 ft	653408-002

Version: 1.%

.



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU 147

 Project ID:
 012920024

 Work Order Number(s):
 653408

ATORIES

Report Date: 26-FEB-20 Date Received: 02/24/2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None





Project Id:012920024Contact:Dan Moir

Project Location:

Certificate of Analysis Summary 653408

LT Environmental, Inc., Arvada, CO Project Name: PLU 147 Page 72 of 268

Date Received in Lab:Mon Feb-24-20 08:30 amReport Date:26-FEB-20Project Manager:Jessica Kramer

	Lab Id:	653408-0	001	653408-0	002		
An alugia Degregated	Field Id:	SS01		SS02			
Analysis Requested	Depth:	0.5- ft		0.5- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	Feb-21-20	12:00	Feb-21-20	12:05		
BTEX by EPA 8021B	Extracted:	Feb-24-20	10:00	Feb-24-20	10:00		
	Analyzed:	Feb-25-20	10:56	Feb-25-20	11:16		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		2.46	2.04	0.776	0.510		
Toluene		175	2.04	36.1	2.04		
Ethylbenzene		48.6	2.04	13.8	2.04		
m,p-Xylenes		708	4.08	188	4.08		
o-Xylene		182	2.04	52.3	2.04		
Total Xylenes		890	2.04	240	2.04		
Total BTEX		1120	2.04	291	0.510		
Chloride by EPA 300	Extracted:	Feb-24-20	10:00	Feb-24-20	10:00		
	Analyzed:	Feb-24-20	12:52	Feb-24-20	12:58		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		543	10.1	867	9.98		
TPH by SW8015 Mod	Extracted:	Feb-24-20	13:30	Feb-24-20	13:30		
	Analyzed:	Feb-25-20	12:21	Feb-25-20	12:21		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)	· · · · · · · · · · · · · · · · · · ·	3030	249	2930	250		
Diesel Range Organics (DRO)		13900	249	23800	250		
Motor Oil Range Hydrocarbons (MRO)		966	249	1560	250		
Total GRO-DRO		16900	249	26700	250		
Total TPH		17900	249	28300	250		

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

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

Version: 1.%

fession kenner

Jessica Kramer Project Assistant

Released to Imaging: 1/5/2024 3:07:1174PMM

Page 5 of 14

Final 1.000


LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id:SS01Lab Sample Id:653408-001		Matrix: Date Colle	Soil cted: 02.21	.20 12.00	Date Received:02.24.20 08.30 Sample Depth: 0.5 ft			
Analytical Method: Chloride by EPA	A 300				Р	Prep Method: E30)0P	
Tech: MAB					9	6 Moisture:		
Analyst: MAB		Date Prep:	02.24	.20 10.00	E	Basis: We	t Weight	
Seq Number: 3117433								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	543	10.1		mg/kg	02.24.20 12.52		1
Analytical Method: TPH by SW8015	5 Mod				P	rep Method: SW	/8015P	
Analytical Method: TPH by SW8015 Tech: DTH Analyst: DTH Seq Number: 3117477	5 Mod	Date Prep:	02.24	.20 13.30	9	6 Moisture:	78015P t Weight	
Tech: DTH Analyst: DTH	5 Mod Cas Number	Date Prep: Result	02.24. RL	.20 13.30	9	6 Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3117477		-		.20 13.30	9 E	6 Moisture: Basis: We	t Weight	Dil 5
Tech: DTH Analyst: DTH Seq Number: 3117477 Parameter	Cas Number	Result	RL	.20 13.30	9 E Units	6 Moisture: Basis: We Analysis Date	t Weight	
Tech: DTH Analyst: DTH Seq Number: 3117477 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result 3030	RL 249	.20 13.30	% E Units mg/kg	6 Moisture: Basis: We Analysis Date 02.25.20 12.21	t Weight	5
Tech:DTHAnalyst:DTHSeq Number:3117477ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628	Result 3030 13900	RL 249 249 249 249 249 249	.20 13.30	9 E Units mg/kg mg/kg	6 Moisture: Basis: We 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21	t Weight	5 5 5 5
Tech: DTH Analyst: DTH Seq Number: 3117477 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result 3030 13900 966	RL 249 249 249 249 249 249 249 249	.20 13.30	9 E Units mg/kg mg/kg mg/kg	6 Moisture: Basis: We 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21	t Weight	5 5 5
Tech:DTHAnalyst:DTHSeq Number:3117477ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628	Result 3030 13900 966 16900 17900	RL 249 249 249 249 249 249	.20 13.30 Units	9 E Units mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: We 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21	t Weight	5 5 5 5
Tech:DTHAnalyst:DTHSeq Number:3117477ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total GRO-DROTotal TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 3030 13900 966 16900 17900	RL 249 249 249 249 249 249 249 249 %		9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: We 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21	t Weight Flag	5 5 5 5



LT Environmental, Inc., Arvada, CO

Sample Id:SS01Lab Sample Id:653408-001	Matrix: Soil Date Collected: 02.21.20 12.00	Date Received:02.24.20 08.30 Sample Depth: 0.5 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3117499	Date Prep: 02.24.20 10.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	2.46	2.04		mg/kg	02.25.20 10.56		100
Toluene	108-88-3	175	2.04		mg/kg	02.25.20 10.56		100
Ethylbenzene	100-41-4	48.6	2.04		mg/kg	02.25.20 10.56		100
m,p-Xylenes	179601-23-1	708	4.08		mg/kg	02.25.20 10.56		100
o-Xylene	95-47-6	182	2.04		mg/kg	02.25.20 10.56		100
Total Xylenes	1330-20-7	890	2.04		mg/kg	02.25.20 10.56		100
Total BTEX		1120	2.04		mg/kg	02.25.20 10.56		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	102	%	70-130	02.25.20 10.56		
1,4-Difluorobenzene		540-36-3	93	%	70-130	02.25.20 10.56		



LT Environmental, Inc., Arvada, CO

Sample Id:SS02Lab Sample Id:653408-002		Matrix: Date Coll	Soil ected: 02.21	.20 12.05	Date Received:02.24.20 08.30 Sample Depth: 0.5 ft			
Analytical Method: Chloride by EPA	A 300					Prep Method: E30	00P	
Tech: MAB						% Moisture:		
Analyst: MAB		Date Prep	o: 02.24	.20 10.00	E	Basis: We	t Weight	
Seq Number: 3117433								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	867	9.98		mg/kg	02.24.20 12.58		1
Analytical Method:TPH by SW8013Tech:DTHAnalyst:DTHSeq Number:3117477	5 Mod	Date Prep	o: 02.24	.20 13.30	9	Prep Method: SW % Moisture: Basis: We	78015P t Weight	
Tech: DTH Analyst: DTH	5 Mod Cas Number	Date Prep Result	o: 02.24 RL	.20 13.30	9	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3117477		-		.20 13.30	9 E	6 Moisture: Basis: We	t Weight	Dil 5
Tech: DTH Analyst: DTH Seq Number: 3117477 Parameter	Cas Number	Result	RL	.20 13.30	9 E Units	Moisture: Basis: We Analysis Date	t Weight	
Tech: DTH Analyst: DTH Seq Number: 3117477 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result 2930	RL 250	.20 13.30	9 E Units mg/kg	Moisture: Basis: We Analysis Date 02.25.20 12.21	t Weight	5
Tech: DTH Analyst: DTH Seq Number: 3117477 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 2930 23800	RL 250 250	.20 13.30	9 E Units mg/kg mg/kg	Moisture: Basis: We Analysis Date 02.25.20 12.21 02.25.20 12.21	t Weight	5 5
Tech: DTH Analyst: DTH Seq Number: 3117477 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result 2930 23800 1560	RL 250 250 250	.20 13.30	9 E Units mg/kg mg/kg mg/kg	Moisture: Basis: We <u>Analysis Date</u> 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21	t Weight	5 5 5
Tech:DTHAnalyst:DTHSeq Number:3117477ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628	Result 2930 23800 1560 26700 28300	RL 250 250 250 250 250 250 %	.20 13.30 Units	9 E Units mg/kg mg/kg mg/kg mg/kg	Analysis Date 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21	t Weight	5 5 5 5
Tech:DTHAnalyst:DTHSeq Number:3117477ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total GRO-DROTotal TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC628	Result 2930 23800 1560 26700 28300	RL 250 250 250 250 250 250		9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: 3asis: We Analysis Date 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21 02.25.20 12.21	t Weight Flag	5 5 5 5



LT Environmental, Inc., Arvada, CO

Sample Id:SS02Lab Sample Id:653408-002	Matrix: Soil Date Collected: 02.21.20 12.05	Date Received:02.24.20 08.30 Sample Depth: 0.5 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3117499	Date Prep: 02.24.20 10.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.776	0.510		mg/kg	02.25.20 11.16		100
Toluene	108-88-3	36.1	2.04		mg/kg	02.25.20 11.16		100
Ethylbenzene	100-41-4	13.8	2.04		mg/kg	02.25.20 11.16		100
m,p-Xylenes	179601-23-1	188	4.08		mg/kg	02.25.20 11.16		100
o-Xylene	95-47-6	52.3	2.04		mg/kg	02.25.20 11.16		100
Total Xylenes	1330-20-7	240	2.04		mg/kg	02.25.20 11.16		100
Total BTEX		291	0.510		mg/kg	02.25.20 11.16		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	70-130	02.25.20 11.16		
1,4-Difluorobenzene		540-36-3	101	%	70-130	02.25.20 11.16		



Flagging Criteria

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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

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



QC Summary 653408

LT Environmental, Inc. PLU 147

Analytical Method: Seq Number: MB Sample Id:	Chloride by EPA 3 3117433 7697297-1-BLK	300		Matrix: nple Id:	Solid 7697297-	1-BKS			rep Meth Date Pr D Sample	ep: 02.2		
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	<10.0	250	253	101	253	101	90-110	0	20	mg/kg	02.24.20 10:21	
Analytical Method: Seq Number: Parent Sample Id:	3117433 653380-001		MS Sa	•	653380-0		T	MS	1	ep: 02.2 e Id: 6533	4.20 380-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	ut Units	Analysis Date	Flag
Chloride	128	199	337	105	359	117	90-110	6	20	mg/kg	02.24.20 11:51	Х

Analytical Method:	Chloride by EPA 300							Pi	ep Metho	od: E30	OP	
Seq Number:	3117433			Matrix:	Soil				Date Pr	ep: 02.2	4.20	
Parent Sample Id:	653401-001		MS Sar	nple Id:	653401-00	01 S		MS	D Sample	e Id: 6534	401-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	254	200	461	104	462	104	90-110	0	20	mg/kg	02.24.20 10:38	

Analytical Method:	TPH by S	SW8015 M	od]	Prep Method	i: SW	8015P	
Seq Number:	3117477				Matrix:	Solid				Date Prep	p: 02.2	24.20	
MB Sample Id:	le Id: 7697359-1-BLK				nple Id:	7697359-	1-BKS		LC	SD Sample	ld: 769	7359-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	O RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocart	oons (GRO)	< 50.0	1000	760	76	760	76	70-135	0	35	mg/kg	02.24.20 14:46	
Diesel Range Organics	(DRO)	<50.0	1000	836	84	853	85	70-135	2	35	mg/kg	02.24.20 14:46	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane		105		1	01		113		,	70-135	%	02.24.20 14:46	
o-Terphenyl		116		1	02		103			70-135	%	02.24.20 14:46	

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8	015P	
Seq Number:	3117477	Matrix:	Solid	Date Prep:	02.24	4.20	
		MB Sample Id:	7697359-1-BLK				
Parameter		MB Result		τ	Jnits	Analysis Date	Flag
Motor Oil Range Hydrocar	oons (MRO)	<50.0		m	ng/kg	02.24.20 14:26	

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

[D] = 100*(C-A) / B $\begin{aligned} \text{RPD} &= 200^* \mid (\text{C-E}) / (\text{C+E}) \mid \\ \text{[D]} &= 100^* (\text{C}) / \text{[B]} \end{aligned}$ Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control SampleA = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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

.

Page 11 of 14



QC Summary 653408

LT Environmental, Inc. PLU 147

Analytical Method: Seq Number: Parent Sample Id:	TPH by S 3117477 653401-00		lod		Matrix: nple Id:	Soil 653401-00)1 S			Prep Method Date Prep SD Sample I): 02.2	8015P 24.20 401-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	< 50.1	1000	907	91	1060	106	70-135	16	35	mg/kg	02.24.20 15:06	
Diesel Range Organics ((DRO)	< 50.1	1000	1050	105	1200	120	70-135	13	35	mg/kg	02.24.20 15:06	
Surrogate					IS Rec	MS Flag	MSD %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane				1	30		125		7	0-135	%	02.24.20 15:06	
o-Terphenyl				1	18		132		7	0-135	%	02.24.20 15:06	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3117499 7697295-1-BLK	lB	Matrix: Solid LCS Sample Id: 7697295-1-BKS					Prep Method: SW5030B Date Prep: 02.24.20 LCSD Sample Id: 7697295-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag	
Benzene	< 0.00200	0.100	0.108	108	0.105	105	70-130	3	35	mg/kg	02.24.20 11:03		
Toluene	< 0.00200	0.100	0.103	103	0.101	101	70-130	2	35	mg/kg	02.24.20 11:03		
Ethylbenzene	< 0.00200	0.100	0.0985	99	0.0975	98	71-129	1	35	mg/kg	02.24.20 11:03		
m,p-Xylenes	< 0.00400	0.200	0.203	102	0.202	101	70-135	0	35	mg/kg	02.24.20 11:03		
o-Xylene	< 0.00200	0.100	0.101	101	0.100	100	71-133	1	35	mg/kg	02.24.20 11:03		
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSD %Rec			Limits	Units	Analysis Date		
1,4-Difluorobenzene	104		1	05		104			70-130	%	02.24.20 11:03		
4-Bromofluorobenzene	96		ç	92		93			70-130	%	02.24.20 11:03		

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3117499 653379-001	1B	Matrix: Soil MS Sample Id: 653379-001 S					Prep Method: SW5030B Date Prep: 02.24.20 MSD Sample Id: 653379-001 SD					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPE	RPD Limit	Units	Analysis Date	Flag	
Benzene	< 0.00199	0.0996	0.0987	99	0.106	106	70-130	7	35	mg/kg	02.24.20 11:43		
Toluene	< 0.00199	0.0996	0.0838	84	0.0933	94	70-130	11	35	mg/kg	02.24.20 11:43		
Ethylbenzene	< 0.00199	0.0996	0.0704	71	0.0807	81	71-129	14	35	mg/kg	02.24.20 11:43		
m,p-Xylenes	< 0.00398	0.199	0.141	71	0.163	82	70-135	14	35	mg/kg	02.24.20 11:43		
o-Xylene	< 0.00199	0.0996	0.0730	73	0.0842	85	71-133	14	35	mg/kg	02.24.20 11:43		
Surrogate				1S Rec	MS Flag	MSD %Rec		-	Limits	Units	Analysis Date		
1,4-Difluorobenzene			1	05		104		7	70-130	%	02.24.20 11:43		
4-Bromofluorobenzene			ç	96		94		7	70-130	%	02.24.20 11:43		

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

[D] = 100*(C-A) / B $\begin{aligned} \text{RPD} &= 200^* \mid (\text{C-E}) / (\text{C+E}) \mid \\ \text{[D]} &= 100^* (\text{C}) / \text{[B]} \end{aligned}$ Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control SampleA = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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

ived l	by O		: 8	A nco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These forms will be enforced unless previously negotiated.	123 2:		511	PM		1				2055	1055	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone:	-	-	Company Name:	roject Manager:	age 80 of
	The second secon	Ali	Signature)	ble only for the cost e of \$75.00 will be a	and Metal(s) to	0 200.8 / 6020:										fication	Yes	Yes	G	9		Robert McAfee	Spill date	0127200	PW	432.704.5178	Midland, TX 79705	3300 North A Street	LT Environmental, Inc., Permian office	Dan Moir	BORATORI
			Rece	of samples and s pplied to each pro	be analyzed	20:						$\Big)$		2 02/2		rix	NIA		No	1 4.(Temp Blank		01/28/20	hei	±h1		1705	Street	ital, Inc., Peri		O
		Maria	Received by: (Signature)	ball not assume a pject and a charge	TCLP /:	8RCRA				7	/			02/21/20 1205	-		Total Containers:	Correction Factor:	+ /	The	No					E			mian office		Hobbs,NM (5
			nature)	ny responsibility fo of \$5 for each sam	TCLP / SPLP 6010: 8RCRA	13PPM Texas 11			/					0.5	0.5	ed Depth		,	r		Wet Ice: Yes No	Due Date:	Rush:	Routine	Turn Around	Email: dmoir@ltenv.com mcafee@ltenv.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
	10100	2-24-20	EU Pa	rom client com r any losses or ple submitted t	RCRA Sb	s 11 AI Sb			X	-	1				- ×		Der of	Cor	-		°]					onv.com m				itterent) K	40-4200 Dall 704-5440) EL benix,AZ (480-
		71891	Date/Time	expenses incur Xenco, but no	As Ba Be	As Ba Be					1	All	2	XX	×	BTEX		=80								ncafee@Iter	Carlsbad, NM		XTO-Energy	Kyle Littrel	Dallas,TX (214) 902-0300 San Antonio,1 EL Paso,TX (915)585-3443 Lubbock,T 480-355-0900) Atlanta,GA (770-449-880
6	401	2	Raling	its affiliates and red by the clien t analyzed. Thes	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	B Cd Ca						K				Chiori	de (EP)	A 30	0.0)	_				_		W.com					2-0300 San Ar 585-3443 Lubl anta,GA (770-4
	2 5	S (orginality)	michad hur	subcontractors t if such losses e terms will be	Cu Pb Mr	Cr Co Cu					1			-				_						_	ANALYSI						tionic, TX (210) bock, TX (806)7 49-8800) Tam
		(oignature)	Ginnatural	are due to circu enforced unless	Mo Ni Se	Fe Pb				1			+												LYSIS REQUEST		77) 509-3334 '94-1296 Ipa,FL (813-62
	W	a) ne	D	Itractors. It assigns standard terms and condi losses are due to circumstances beyond the c will be enforced unless previously negotiated	Ag TI U	Mg Mn Mo Ni			/										_	_				_	T	Deliverables: EDD	Reporting:Level II evel III ST/UST	State of Project:	Program: UST/PST		0-20001
	4	Neceived by: (Signature		d the control vilated.	0	K Se Aq					-												-				III Devel I		-	Wor	WWWW XE
	ec	oignature)			1631/	SiO2 Na Sr TI Sn U V																			_	ADaPT	II ST/US	C	PRP Brownfields	Work Order Comments	WWW Xench com
	Te	1 21			1631 / 245.1 / 7470 / 7471	r TI Sn U								discrete	discrete	Sample Comments	TAT starts the day received by the lab, if received by 4:30pm								Work O	Othe	RRP	I	RC	mments	www.xench.com Page of
	14120 8 20	Date/ Itme			0 / 7471	V Zn		1	/					:k	k	Comme	ved by 4:3								Work Order Notes	п	Bvel IV	5	uperfund		of

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 02.24.2020 08.30.00 AM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 653408	Temperature Measuring device used : T-NM-007
Sample Recei	pt Checklist Comments
#1 *Temperature of cooler(s)?	.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Νο
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#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)?	Νο
#18 Water VOC samples have zero headspace?	Ν/Α

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan
Checklist reviewed by: Jessica Wramer

Date: 02.24.2020

Jessica Kramer

Date: 02.26.2020

for LT Environmental, Inc.

Project Manager: Dan Moir

PLU 147

012920024

20-MAR-20

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

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



20-MAR-20

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

Reference: XENCO Report No(s): 656193 **PLU 147** Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 656193. 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. 656193 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession kramer

Jessica Kramer **Project Manager**

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 656193

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	03-18-20 10:55	7 ft	656193-001
FS02	S	03-18-20 11:40	7 ft	656193-002
FS03	S	03-18-20 11:45	7 ft	656193-003
SW01	S	03-18-20 11:49	0 - 7 ft	656193-004
SW02	S	03-18-20 11:51	0 - 7 ft	656193-005
SW03	S	03-18-20 11:53	0 - 7 ft	656193-006



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU 147

 Project ID:
 012920024

 Work Order Number(s):
 656193

ORIES

 Report Date:
 20-MAR-20

 Date Received:
 03/19/2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3120331 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Project Id: 012920024 **Contact:** Dan Moir

Project Location:

Certificate of Analysis Summary 656193

Page 86 of 268

LT Environmental, Inc., Arvada, CO Project Name: PLU 147

Date Received in Lab: Thu Mar-19-20 08:15 am Report Date: 20-MAR-20 Project Manager: Jessica Kramer

	Lab Id:	656193-	001	656193-	002	656193-	003	656193-	004	656193-0	005	656193-0	006
An alusia Doguostad	Field Id:	FS01		FS02	2	FS03		SW0	l	SW02	2	SW03	;
Analysis Requested	Depth:	7- ft		7- ft		7- ft		0-7 ft	:	0-7 ft		0-7 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL	,	SOIL	
	Sampled:	Mar-18-20	10:55	Mar-18-20	11:40	Mar-18-20	11:45	Mar-18-20	11:49	Mar-18-20	11:51	Mar-18-20	11:53
BTEX by EPA 8021B	Extracted:	Mar-19-20	11:34	Mar-19-20	11:34	Mar-19-20	11:34	Mar-19-20	11:34	Mar-19-20	11:34	Mar-19-20	11:34
	Analyzed:	Mar-19-20	15:04	Mar-19-20	15:24	Mar-19-20	15:44	Mar-19-20	16:05	Mar-19-20	16:25	Mar-20-20	03:38
	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	< 0.00202	0.00202	< 0.00199	0.00199	< 0.0101	0.0101	< 0.0714	0.0714
Toluene		< 0.00201	0.00201	0.00416	0.00200	0.00709	0.00202	< 0.00199	0.00199	< 0.0101	0.0101	0.646	0.0714
Ethylbenzene		< 0.00201	0.00201	0.00709	0.00200	0.0135	0.00202	< 0.00199	0.00199	< 0.0101	0.0101	1.26	0.0714
m,p-Xylenes		0.0293	0.00402	0.0832	0.00399	0.142	0.00403	< 0.00398	0.00398	< 0.0202	0.0202	13.1	0.143
o-Xylene		0.0133	0.00201	0.0446	0.00200	0.0863	0.00202	< 0.00199	0.00199	< 0.0101	0.0101	7.45	0.0714
Total Xylenes		0.0426	0.00201	0.128	0.00200	0.228	0.00202	< 0.00199	0.00199	< 0.0101	0.0101	20.6	0.0714
Total BTEX		0.0426	0.00201	0.139	0.00200	0.249	0.00202	< 0.00199	0.00199	< 0.0101	0.0101	22.5	0.0714
Chloride by EPA 300	Extracted:	Mar-19-20	12:16	Mar-19-20	12:16	Mar-19-20	12:16	Mar-19-20	12:16	Mar-19-20	12:16	Mar-19-20	12:16
	Analyzed:	Mar-19-20	12:23	Mar-19-20	12:57	Mar-19-20	13:04	Mar-19-20	13:23	Mar-19-20	13:29	Mar-19-20	13:34
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		312	10.0	341	9.90	306	10.1	159	10.0	15.2	10.1	110	10.1
TPH by SW8015 Mod	Extracted:	Mar-19-20	16:15	Mar-19-20	16:15	Mar-19-20	16:15	** ** **	**	** ** **	**	** ** **	**
	Analyzed:	Mar-19-20	16:34	Mar-19-20	16:54	Mar-19-20	17:14	Mar-19-20	16:34	Mar-19-20	16:54	Mar-19-20	17:14
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	85.5	50.1	<49.9	49.9	<50.1	50.1	1440	50.2
Diesel Range Organics (DRO)		77.0	50.0	526	49.8	974	50.1	<49.9	49.9	<50.1	50.1	4850	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	56.7	50.1	<49.9	49.9	<50.1	50.1	225	50.2
Total GRO-DRO		77.0	50.0	526	49.8	1060	50.1	<49.9	49.9	<50.1	50.1	6290	50.2
Total TPH		77.0	50.0	526	49.8	1120	50.1	<49.9	49.9	<50.1	50.1	6520	50.2

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

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

fession kenner

Jessica Kramer Project Manager

Released to Imaging: 1/5/2024 3:07:174PMM

Page 5 of 23

Final 1.000



LT Environmental, Inc., Arvada, CO

Sample Id: FS01 Lab Sample Id: 656193-001		Matrix: Date Coll	Soil ected: 03.18	.20 10.55		Date Received:03. Sample Depth: 7 ft		5
Analytical Method: Chloride by EP	A 300				I	Prep Method: E30	00P	
Tech: MAB					9	% Moisture:		
Analyst: MAB		Date Prep	o: 03.19	.20 12.16	I	Basis: We	t Weight	
Seq Number: 3120336								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	312	10.0		mg/kg	03.19.20 12.23		1
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3120382	5 Mod	Date Prep	o: 03.19	.20 16.15	9	Prep Method: SW % Moisture: Basis: We	78015P et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	03.19.20 16.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	77.0	50.0		mg/kg	03.19.20 16.34		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	03.19.20 16.34	U	1
Total GRO-DRO	PHC628	77.0	50.0		mg/kg	03.19.20 16.34		1
Total TPH	PHC635	77.0	50.0		mg/kg	03.19.20 16.34		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	104	%	70-135	03.19.20 16.34		
o-Terphenyl		84-15-1	115	%	70-135	03.19.20 16.34		



LT Environmental, Inc., Arvada, CO

Sample Id:FS01Lab Sample Id:656193-001	Matrix: Soil Date Collected: 03.18.20 10.55	Date Received:03.19.20 08.15 Sample Depth: 7 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120331	Date Prep: 03.19.20 11.34	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.19.20 15.04	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.19.20 15.04	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.19.20 15.04	U	1
m,p-Xylenes	179601-23-1	0.0293	0.00402		mg/kg	03.19.20 15.04		1
o-Xylene	95-47-6	0.0133	0.00201		mg/kg	03.19.20 15.04		1
Total Xylenes	1330-20-7	0.0426	0.00201		mg/kg	03.19.20 15.04		1
Total BTEX		0.0426	0.00201		mg/kg	03.19.20 15.04		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	03.19.20 15.04		
4-Bromofluorobenzene		460-00-4	100	%	70-130	03.19.20 15.04		



LT Environmental, Inc., Arvada, CO

PLU 147

Lab Sample Id	FS02 d: 656193-002		Matrix: Date Colle	Soil ected: 03.18	.20 11.40		Date Received:03.19.20 08.15 Sample Depth: 7 ft				
Analytical Me	ethod: Chloride by EP	PA 300				F	Prep Method: E30)0P			
Tech:	MAB					9	% Moisture:				
Analyst:	MAB		Date Prep	03.19	.20 12.16	E	Basis: We	t Weight			
Seq Number:	3120336										
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Chloride		16887-00-6	341	9.90		mg/kg	03.19.20 12.57		1		
Tech:	ethod: TPH by SW80	15 Mod					Prep Method: SW	8015P			
Analyst: Seq Number:	DTH		Date Prep	03.19	.20 16.15		% Moisture: Basis: We	t Weight			
-	DTH	Cas Number	Date Prep Result	03.19 RL	.20 16.15			t Weight Flag	Dil		
Seq Number: Parameter	DTH	Cas Number PHC610	-		.20 16.15	E	Basis: We	C	Dil		
Seq Number: Parameter	DTH 3120382 Hydrocarbons (GRO)		Result	RL	.20 16.15	EUnits	Basis: We Analysis Date	Flag			
Seq Number: Parameter Gasoline Range I Diesel Range On	DTH 3120382 Hydrocarbons (GRO)	PHC610	Result <49.8	RL 49.8	.20 16.15	E Units mg/kg	Basis: We Analysis Date 03.19.20 16.54	Flag	1		
Seq Number: Parameter Gasoline Range I Diesel Range On	DTH 3120382 Hydrocarbons (GRO) rganics (DRO) lydrocarbons (MRO)	PHC610 C10C28DRO	Result <49.8 526	RL 49.8 49.8	.20 16.15	Units mg/kg mg/kg	Basis: We Analysis Date 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54	Flag U	1 1		
Seq Number: Parameter Gasoline Range I Diesel Range Or Motor Oil Range H	DTH 3120382 Hydrocarbons (GRO) rganics (DRO) lydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835	Result <49.8 526 <49.8	RL 49.8 49.8 49.8	.20 16.15	Units mg/kg mg/kg mg/kg	Basis: We Analysis Date 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54	Flag U	1 1 1		
Seq Number: Parameter Gasoline Range I Diesel Range On Motor Oil Range H Total GRO-DRO	DTH 3120382 Hydrocarbons (GRO) rganics (DRO) lydrocarbons (MRO) O	PHC610 C10C28DRO PHCG2835 PHC628	Result <49.8 526 <49.8 526 526 526	RL 49.8 49.8 49.8 49.8 49.8 49.8 %	.20 16.15	Units Mg/kg mg/kg mg/kg mg/kg	Basis: We Analysis Date 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54	Flag U	1 1 1 1		
Seq Number: Parameter Gasoline Range I Diesel Range On Motor Oil Range H Total GRO-DRO Total TPH	DTH 3120382 Hydrocarbons (GRO) rganics (DRO) (ydrocarbons (MRO) O	PHC610 C10C28DRO PHCG2835 PHC628	Result <49.8 526 <49.8 526 526 526	RL 49.8 49.8 49.8 49.8 49.8		Units Mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Basis: We Analysis Date 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54	Flag U U	1 1 1 1		



LT Environmental, Inc., Arvada, CO

Sample Id:FS02Lab Sample Id:656193-002	Matrix: Soil Date Collected: 03.18.20 11.40	Date Received:03.19.20 08.15 Sample Depth: 7 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120331	Date Prep: 03.19.20 11.34	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.19.20 15.24	U	1
Toluene	108-88-3	0.00416	0.00200		mg/kg	03.19.20 15.24		1
Ethylbenzene	100-41-4	0.00709	0.00200		mg/kg	03.19.20 15.24		1
m,p-Xylenes	179601-23-1	0.0832	0.00399		mg/kg	03.19.20 15.24		1
o-Xylene	95-47-6	0.0446	0.00200		mg/kg	03.19.20 15.24		1
Total Xylenes	1330-20-7	0.128	0.00200		mg/kg	03.19.20 15.24		1
Total BTEX		0.139	0.00200		mg/kg	03.19.20 15.24		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	112	%	70-130	03.19.20 15.24		
1,4-Difluorobenzene		540-36-3	104	%	70-130	03.19.20 15.24		



LT Environmental, Inc., Arvada, CO

Sample Id: FS03 Lab Sample Id: 656193-003					Date Received:03. Sample Depth: 7 ft		5	
Analytical Method: Chloride by EPA	A 300				F	Prep Method: E30	00P	
Tech: MAB					9	% Moisture:		
Analyst: MAB		Date Prep:	03.19.	.20 12.16	E	Basis: We	t Weight	
Seq Number: 3120336								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	306	10.1		mg/kg	03.19.20 13.04		1
					_		~ ~	
Analytical Method:TPH by SW801:Tech:DTHAnalyst:DTHSeq Number:3120382	5 Mod	Date Prep:	03.19.	20 16.15	9	Prep Method: SW 6 Moisture: Basis: We	8015P t Weight	
Tech: DTH Analyst: DTH	5 Mod Cas Number	Date Prep: Result	03.19. RL	20 16.15	9	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3120382		-		20 16.15	9 E	6 Moisture: Basis: We	t Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3120382 Parameter	Cas Number	Result	RL	20 16.15	9 E Units	 Moisture: Basis: We Analysis Date 	t Weight	
Tech: DTH Analyst: DTH Seq Number: 3120382 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result 85.5	RL 50.1	.20 16.15	9 E Units mg/kg	Moisture: Basis: We Analysis Date 03.19.20 17.14	t Weight	1
Tech: DTH Analyst: DTH Seq Number: 3120382 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 85.5 974	RL 50.1 50.1 50.1 50.1	.20 16.15	9 E Units mg/kg mg/kg	Moisture: Basis: Wer Analysis Date 03.19.20 17.14 03.19.20 17.14	t Weight	1 1
Tech: DTH Analyst: DTH Seq Number: 3120382 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result 85.5 974 56.7	RL 50.1 50.1 50.1	.20 16.15	9 E Units mg/kg mg/kg mg/kg	⁶ Moisture: Basis: Wer Analysis Date 03.19.20 17.14 03.19.20 17.14 03.19.20 17.14	t Weight	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3120382 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628	Result 85.5 974 56.7 1060 1120	RL 50.1 50.1 50.1 50.1 50.1 50.1 %	20 16.15 Units	9 E Units mg/kg mg/kg mg/kg mg/kg	 Moisture: Basis: West Analysis Date 03.19.20 17.14 03.19.20 17.14 03.19.20 17.14 03.19.20 17.14 	t Weight	1 1 1 1
Tech: DTH Analyst: DTH Seq Number: 3120382 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC628	Result 85.5 974 56.7 1060 1120	RL 50.1 50.1 50.1 50.1 50.1		9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: Wer 03.19.20 17.14 03.19.20 17.14 03.19.20 17.14 03.19.20 17.14 03.19.20 17.14	t Weight Flag	1 1 1 1



LT Environmental, Inc., Arvada, CO

Sample Id: FS03 Lab Sample Id: 656193-003	Matrix: Soil Date Collected: 03.18.20 11.45	Date Received:03.19.20 08.15 Sample Depth: 7 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120331	Date Prep: 03.19.20 11.34	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	03.19.20 15.44	U	1
Toluene	108-88-3	0.00709	0.00202		mg/kg	03.19.20 15.44		1
Ethylbenzene	100-41-4	0.0135	0.00202		mg/kg	03.19.20 15.44		1
m,p-Xylenes	179601-23-1	0.142	0.00403		mg/kg	03.19.20 15.44		1
o-Xylene	95-47-6	0.0863	0.00202		mg/kg	03.19.20 15.44		1
Total Xylenes	1330-20-7	0.228	0.00202		mg/kg	03.19.20 15.44		1
Total BTEX		0.249	0.00202		mg/kg	03.19.20 15.44		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	03.19.20 15.44		
4-Bromofluorobenzene		460-00-4	128	%	70-130	03.19.20 15.44		



LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: SW01 Lab Sample Id: 656193-004	-004 Matrix:			.20 11.49		Date Received:03.19.20 08.15 Sample Depth: 0 - 7 ft			
Analytical Method: Chloride by EP	A 300				I	Prep Method: E30	00P		
Tech: MAB					9	% Moisture:			
Analyst: MAB		Date Prep	o: 03.19	.20 12.16	I	Basis: We	t Weight		
Seq Number: 3120336									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	159	10.0		mg/kg	03.19.20 13.23		1	
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3120393	5 Mod	Date Prep	o: 03.15	2.20 16.15	0	Prep Method: SW % Moisture: Basis: We	78015P et Weight		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	03.19.20 16.34	U	1	
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	03.19.20 16.34	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	03.19.20 16.34	U	1	
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	03.19.20 16.34	U	1	
Total TPH	PHC635	<49.9	49.9		mg/kg	03.19.20 16.34	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	98	%	70-135	03.19.20 16.34			
o-Terphenyl		84-15-1	104	%	70-135	03.19.20 16.34			



LT Environmental, Inc., Arvada, CO

Sample Id:SW01Lab Sample Id:656193-004	Matrix: Soil Date Collected: 03.18.20 11.49	Date Received:03.19.20 08.15 Sample Depth: 0 - 7 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120331	Date Prep: 03.19.20 11.34	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.19.20 16.05	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.19.20 16.05	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.19.20 16.05	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.19.20 16.05	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.19.20 16.05	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.19.20 16.05	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.19.20 16.05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	110	%	70-130	03.19.20 16.05		
1,4-Difluorobenzene		540-36-3	108	%	70-130	03.19.20 16.05		



LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id:SW02Lab Sample Id:656193-005		Matrix: Date Colle	Matrix:SoilDate Received:03.19.20Date Collected:03.18.2011.51Sample Depth: 0 - 7 ft				.5	
Analytical Method: Chloride by EP	PA 300				F	Prep Method: E30	00P	
Tech: MAB					9	% Moisture:		
Analyst: MAB		Date Prep	03.19	.20 12.16	E	Basis: We	t Weight	
Seq Number: 3120336		1						
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.2	10.1		mg/kg	03.19.20 13.29		1
Analytical Method: TPH by SW801	15 Mod				Г	Pren Method: SW	78015P	
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3120393	15 Mod	Date Prep	03.15	.20 16.15	9	Prep Method: SW % Moisture: Basis: We	78015P t Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Prep. Result	03.15 RL	.20 16.15	9	% Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3120393				.20 16.15	9 E	Moisture: Basis: We	t Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3120393 Parameter	Cas Number	Result	RL	.20 16.15	9 E Units	Moisture: Basis: We Analysis Date	t Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3120393 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.1	RL 50.1	.20 16.15	9 E Units mg/kg	Moisture: Basis: We Analysis Date 03.19.20 16.54	t Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3120393 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.1 <50.1	RL 50.1 50.1	.20 16.15	9 E Units mg/kg mg/kg	Moisture: Basis: We Analysis Date 03.19.20 16.54 03.19.20 16.54	t Weight Flag U U	1
Tech: DTH Analyst: DTH Seq Number: 3120393 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result <50.1 <50.1	RL 50.1 50.1 50.1	.20 16.15	9 E Units mg/kg mg/kg mg/kg	Moisture: Basis: We Analysis Date 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54	t Weight Flag U U U	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3120393 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628	Result <50.1	RL 50.1 50.1 50.1 50.1 50.1 %	.20 16.15 Units	9 E Units mg/kg mg/kg mg/kg mg/kg	Moisture: Basis: We Analysis Date 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54	t Weight Flag U U U U U	1 1 1 1
Tech: DTH Analyst: DTH Seq Number: 3120393 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result <50.1	RL 50.1 50.1 50.1 50.1 50.1		9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	Moisture: Basis: We Analysis Date 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54 03.19.20 16.54	t Weight Flag U U U U U U	1 1 1 1

Released to Imaging: 1/5/2024 3:07:117 PMM



LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id:SW02Lab Sample Id:656193-005	Matrix: Soil Date Collected: 03.18.20 11.51	Date Received:03.19.20 08.15 Sample Depth: 0 - 7 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120331	Date Prep: 03.19.20 11.34	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0101	0.0101		mg/kg	03.19.20 16.25	U	1
Toluene	108-88-3	< 0.0101	0.0101		mg/kg	03.19.20 16.25	U	1
Ethylbenzene	100-41-4	< 0.0101	0.0101		mg/kg	03.19.20 16.25	U	1
m,p-Xylenes	179601-23-1	< 0.0202	0.0202		mg/kg	03.19.20 16.25	U	1
o-Xylene	95-47-6	< 0.0101	0.0101		mg/kg	03.19.20 16.25	U	1
Total Xylenes	1330-20-7	< 0.0101	0.0101		mg/kg	03.19.20 16.25	U	1
Total BTEX		< 0.0101	0.0101		mg/kg	03.19.20 16.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	70-130	03.19.20 16.25		
1,4-Difluorobenzene		540-36-3	109	%	70-130	03.19.20 16.25		



LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id:SW03Lab Sample Id:656193-006						te Received:03.19.20 08.15 mple Depth: 0 - 7 ft		
Analytical Method: Chloride by EPA	A 300				I	Prep Method: E30	00P	
Tech: MAB					9	% Moisture:		
Analyst: MAB		Date Prep	o: 03.19	.20 12.16	I	Basis: We	t Weight	
Seq Number: 3120336		-						
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	110	10.1		mg/kg	03.19.20 13.34		1
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3120393	5 Mod	Date Prep	o: 03.15	.20 16.15	0	Prep Method: SW % Moisture: Basis: We	8015P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	1440	50.2		mg/kg	03.19.20 17.14		1
Gusonne Runge Hjurocurbons (GRO)								
Diesel Range Organics (DRO)	C10C28DRO	4850	50.2		mg/kg	03.19.20 17.14		1
		4850 225	50.2 50.2		mg/kg mg/kg	03.19.20 17.14 03.19.20 17.14		1 1
Diesel Range Organics (DRO)	C10C28DRO							
Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	C10C28DRO PHCG2835	225	50.2		mg/kg	03.19.20 17.14		1
Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	C10C28DRO PHCG2835 PHC628	225 6290 6520	50.2 50.2 50.2 %	Units	mg/kg mg/kg	03.19.20 17.14 03.19.20 17.14	Flag	1 1
Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	C10C28DRO PHCG2835 PHC628	225 6290 6520	50.2 50.2 50.2	Units %	mg/kg mg/kg mg/kg	03.19.20 17.14 03.19.20 17.14 03.19.20 17.14	Flag	1 1



LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id:SW03Lab Sample Id:656193-006	Matrix: Soil Date Collected: 03.18.20 11.53	Date Received:03.19.20 08.15 Sample Depth: 0 - 7 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120331	Date Prep: 03.19.20 11.34	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0714	0.0714		mg/kg	03.20.20 03.38	U	1
Toluene	108-88-3	0.646	0.0714		mg/kg	03.20.20 03.38		1
Ethylbenzene	100-41-4	1.26	0.0714		mg/kg	03.20.20 03.38		1
m,p-Xylenes	179601-23-1	13.1	0.143		mg/kg	03.20.20 03.38		1
o-Xylene	95-47-6	7.45	0.0714		mg/kg	03.20.20 03.38		1
Total Xylenes	1330-20-7	20.6	0.0714		mg/kg	03.20.20 03.38		1
Total BTEX		22.5	0.0714		mg/kg	03.20.20 03.38		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	98	%	70-130	03.20.20 03.38		
4-Bromofluorobenzene		460-00-4	121	%	70-130	03.20.20 03.38		



Flagging Criteria

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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

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



QC Summary 656193

LT Environmental, Inc. PLU 147

Analytical Method: Seq Number: MB Sample Id:	Chloride by EPA 30 3120336 7699267-1-BLK	00		Matrix: nple Id:	Solid 7699267-	1-BKS		ep Metho Date Pre D Sample	ep: 03.1		
Parameter Chloride	MB Result <10.0	Spike Amount 250	LCS Result 260	LCS %Rec 104	LCSD Result 262	LCSD %Rec 105	Limits 90-110	RPD Limi		Analysis Date 03.19.20 12:09	Flag

Analytical Method:	Chloride by EPA 3	00						Prep N	Aethod:	E300P	
Seq Number:	3120336			Matrix:	Soil			Dat	te Prep:	03.19.20	
Parent Sample Id:	656193-001		MS San	nple Id:	656193-00	01 S		MSD Sa	mple Id:	656193-001 SD	
Parameter	Parent	Spike	MS	MS	MSD	MCD	Limits	%RPD RPD	Timit IIn	sita Analysia	
Tarameter	Result	Amount	Result	%Rec	Result	MSD %Rec	Linnts	70KED KED		nits Analysis Date	Flag

Analytical Method:	Chloride by EPA 3	00						Pr	ep Metho	od: E30	0P	
Seq Number:	3120336			Matrix:	Solid				Date Pre	ep: 03.1	9.20	
Parent Sample Id:	656277-004		MS Sar	nple Id:	656277-00	04 S		MSI	O Sample	Id: 656	277-004 SD	
Parameter	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD I	RPD Limi	it Units	Analysis	Flag
	Result	Amount	Result	%Rec	Result	%Rec					Date	0

Analytical Method:	TPH by S	W8015 M	od						I	Prep Metho	d: SW8	8015P	
Seq Number:	3120393				Matrix:	Solid				Date Prep	p: 03.1	5.20	
MB Sample Id:	7699383-1	-BLK		LCS Sar	nple Id:	7699383-	1-BKS		LCS	SD Sample	Id: 7699	9383-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	911	91	946	95	70-135	4	35	mg/kg	03.19.20 14:52	
Diesel Range Organics	(DRO)	<50.0	1000	1030	103	1020	102	70-135	1	35	mg/kg	03.19.20 14:52	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane		94		1	15		119		7	0-135	%	03.19.20 14:52	
o-Terphenyl		99		1	18		113		7	0-135	%	03.19.20 14:52	

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

[D] = 100*(C-A) / B $\begin{aligned} \text{RPD} &= 200^* \mid (\text{C-E}) / (\text{C+E}) \mid \\ \text{[D]} &= 100^* (\text{C}) / \text{[B]} \end{aligned}$ Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control SampleA = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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



QC Summary 656193

LT Environmental, Inc. PLU 147

Analytical Method: Seq Number: MB Sample Id:	TPH by SV 3120382 7699380-1-1		od	LCS Sar	Matrix: nple Id:		1-BKS			Prep Metho Date Pre SD Sample	ep: 03.1	8015P 9.20 9380-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	it Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	938	94	1050	105	70-135	11	35	mg/kg	03.19.20 14:52	
Diesel Range Organics	(DRO)	<50.0	1000	1050	105	1160	116	70-135	10	35	mg/kg	03.19.20 14:52	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane		88		1	11		126		7	70-135	%	03.19.20 14:52	
o-Terphenyl		98		1	19		134		7	70-135	%	03.19.20 14:52	
Analytical Method: Seq Number:	TPH by SV 3120393	V8015 M	od	MB Sar	Matrix: nple Id:		1-BLK		I	Prep Metho Date Pre		8015P 5.20	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocarl	bons (MRO)			<50.0							mg/kg	03.19.20 14:32	

Analytical Method: Seq Number:	TPH by SW8015 Mod 3120382	Matrix: MB Sample Id:	Solid 7699380-1-BLK	Prep Method: Date Prep:			
Parameter		MB Result		ι	Inits	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)	<50.0		m	ıg/kg	03.19.20 14:32	

Analytical Method:	TPH by S	W8015 M	lod]	Prep Method	i: SW	8015P	
Seq Number:	3120393				Matrix:	Soil				Date Prep	p: 03.1	5.20	
Parent Sample Id:	656197-00)1		MS Sar	nple Id:	656197-0	01 S		M	SD Sample	ld: 656	197-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPE) RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	999	906	91	924	92	70-135	2	35	mg/kg	03.19.20 15:53	
Diesel Range Organics	(DRO)	<50.0	999	984	98	1020	102	70-135	4	35	mg/kg	03.19.20 15:53	
Surrogate					AS Rec	MS Flag	MSD %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane				1	15		117		7	70-135	%	03.19.20 15:53	
o-Terphenyl				1	14		117		7	70-135	%	03.19.20 15:53	

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

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

LCS = Laboratory Control SampleA = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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

.

Page 20 of 23



QC Summary 656193

LT Environmental, Inc. PLU 147

Analytical Method:TPH by 3Seq Number:3120382Parent Sample Id:656196-0		od		Matrix: nple Id:	Soil 656196-00	01 S			enioui	8015P 19.20 196-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD RPD	Limit Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	903	90	924	92	70-135	2 35	mg/kg	03.19.20 15:53	
Diesel Range Organics (DRO)	< 50.1	1000	983	98	1020	102	70-135	4 35	mg/kg	03.19.20 15:53	
Surrogate				AS Rec	MS Flag	MSD %Ree			Units	Analysis Date	
1-Chlorooctane			1	06		111		70-135	%	03.19.20 15:53	
o-Terphenyl			1	11		117		70-135	%	03.19.20 15:53	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3120331 7699269-1-BLK	1B	LCS San	Matrix: nple Id:	Solid 7699269-	1-BKS			Prep Methoo Date Prej SD Sample	p: 03.1	5030B 9.20 9269-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.108	108	0.104	104	70-130	4	35	mg/kg	03.19.20 12:41	
Toluene	< 0.00200	0.100	0.104	104	0.0995	100	70-130	4	35	mg/kg	03.19.20 12:41	
Ethylbenzene	< 0.00200	0.100	0.100	100	0.0950	95	71-129	5	35	mg/kg	03.19.20 12:41	
m,p-Xylenes	< 0.00400	0.200	0.207	104	0.197	99	70-135	5	35	mg/kg	03.19.20 12:41	
o-Xylene	< 0.00200	0.100	0.103	103	0.0982	98	71-133	5	35	mg/kg	03.19.20 12:41	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	109		1	07		108		,	70-130	%	03.19.20 12:41	
4-Bromofluorobenzene	94		9	03		95		,	70-130	%	03.19.20 12:41	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3120331 656196-001	1B		Matrix: nple Id:	Soil 656196-00	01 S			Prep Metho Date Pre SD Sample	p: 03.1	5030B 9.20 196-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPE	ORPD Limit	t Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.103	103	0.104	105	70-130	1	35	mg/kg	03.19.20 13:22	
Toluene	< 0.00200	0.100	0.0933	93	0.0844	85	70-130	10	35	mg/kg	03.19.20 13:22	
Ethylbenzene	< 0.00200	0.100	0.0877	88	0.0770	78	71-129	13	35	mg/kg	03.19.20 13:22	
m,p-Xylenes	< 0.00400	0.200	0.178	89	0.153	77	70-135	15	35	mg/kg	03.19.20 13:22	
o-Xylene	< 0.00200	0.100	0.0916	92	0.0828	83	71-133	10	35	mg/kg	03.19.20 13:22	
Surrogate				1S Rec	MS Flag	MSE %Re		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	08		109		7	70-130	%	03.19.20 13:22	
4-Bromofluorobenzene			ç	96		94		5	70-130	%	03.19.20 13:22	

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

[D] = 100*(C-A) / B $\begin{aligned} \text{RPD} &= 200^* \mid (\text{C-E}) / (\text{C+E}) \mid \\ \text{[D]} &= 100^* (\text{C}) / \text{[B]} \end{aligned}$ Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control SampleA = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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

		1			www.xenco.com	Page
Project Manager: D	Dan Moir	Bill to: (if different)	Kyle Littrell		Work Order Comments	omment
Company Name: L	LT Environmental, Inc., Permian Office	Company Name:	XTO Energy, Inc.	Pro	Program: UST/PST PRP Brownfield BB/	
Address: 3		Address:	3104 E Greene St		State of Project:	
City, State ZIP: N	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220	Re	Reporting:Level I Level PST/US	JS TRA
Phone: (4	(432) 236-3849	Email: fsmith@ltenv.com	om, dmoir@ltenv.com			
Project Name:	PLU HT	Turn Around		ANAI VOIS		
ä	2920024	Routine:				Satoki lanin vinasi
PO#	pilldate	Rush: 24 hra				
Sampler's Name:	Fatima Smith					
SAMPLE RECEIPT	Temp Blank: Yes No Wa	Wet Ice: Yes No				
Temperature (°C):	1.0					
Received Intact:	(Yes No +N	V	-			
Cooler Custody Seals:	Yes NA NIA Correction Factor:	2.2	=802			
Sample Custody Seals:	Yes (No) NIA		PA 0			TAT starts the day received by the lab, if received by 4:30pm
Sample Identification	fication Matrix Date Time Sampled Sampled	e Depth Numbe	TPH (EF BTEX (E Chloride			Sample Comments
FGOI	S 3/16/20 1055	t.	X			
F602						
F603		t				
	bhil S	1 0-7				
	0 115	1 0-7 4	444			
8W03	S & 115	30-71	XXX			
	ALA					
		7				
Total 200.7 / 6010 Circle Method(s) a	200.8 / 6020: 8RC nd Metal(s) to be analyzed	RA 13PPM Texas 11 AI Sb As Be Be Cd Ca Ci TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co	Sb As Bay Be B (Sb As Ba Be C	Co Cu Fe Pb Cu Pb Mn Mo	oNiK Se Ag Si TIU	02 Na Sr TI Sn U V Zn 1631/245.1/7470 / 7471 : Ha
tice: Signature of this docu	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	alid purchase order from clie	nt company to Xenco, its	affiliates and subcontractors. It assigns s		
Xenco. A minimum charge	or envice. Anno will be lique 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 \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	of \$5 for each sample subm	ses or expenses incurred nitted to Xenco, but not ar	d by the client if such losses are due to cire nalyzed. These terms will be enforced unle	cumstances beyond the control rss previously negotiated.	
Relinquished by: (Signature)	Signature) Received by (Sig	(Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	
Jata (n	Winty	3/10	3/19/20/7:56m2			000000
1				1	2/2	



Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334 Chain of Custody Work Order No: 451493

Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient		
Date/ Time Received: 03.19.2020 08.15.00 AM			
Work Order #: 656193	Temperature Measuring device used : T-NM-007		
Sample Recei	pt Checklist Comments		
#1 *Temperature of cooler(s)?	1		
#2 *Shipping container in good condition?	Yes		
#3 *Samples received on ice?	Yes		
#4 *Custody Seals intact on shipping container/ cooler?	Yes		
#5 Custody Seals intact on sample bottles?	Yes		
#6*Custody Seals Signed and dated?	Yes		
#7 *Chain of Custody present?	Yes		
#8 Any missing/extra samples?	Νο		
#9 Chain of Custody signed when relinquished/ received?	Yes		
#10 Chain of Custody agrees with sample labels/matrix?	Yes		
#11 Container label(s) legible and intact?	Yes		
#12 Samples in proper container/ bottle?	Yes		
#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)?	Νο		
#18 Water VOC samples have zero headspace?	N/A		

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan
Checklist reviewed by: Jessica Warmer

Date: 03.19.2020

Jessica Kramer

Date: 03.19.2020

Analytical Report 656335

for LT Environmental, Inc.

Project Manager: Dan Moir

PLU 147

012920024

20-MAR-20

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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

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

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





20-MAR-20

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

Reference: XENCO Report No(s): 656335 **PLU 147** Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 656335. 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. 656335 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession knomen

Jessica Kramer **Project Manager**

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 656335

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	03-19-20 09:29	1 ft	656335-001
PH01A	S	03-19-20 09:35	4 ft	656335-002
PH01B	S	03-19-20 09:57	7 ft	656335-003
PH02	S	03-19-20 10:25	1 ft	656335-004
PH02A	S	03-19-20 10:36	4 ft	656335-005
PH02B	S	03-19-20 10:54	7 ft	656335-006
PH03	S	03-19-20 11:43	1 ft	656335-007
PH03A	S	03-19-20 11:49	4 ft	656335-008
PH03B	S	03-19-20 12:05	7 ft	656335-009
SW04	S	03-19-20 11:30	0 - 4 ft	656335-010
FS04	S	03-19-20 11:33	4 ft	656335-011

Version: 1.%



CASE NARRATIVE



Client Name: LT Environmental, Inc. Project Name: PLU 147

 Project ID:
 012920024

 Work Order Number(s):
 656335

 Report Date:
 20-MAR-20

 Date Received:
 03/19/2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3120334 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3120335 BTEX by EPA 8021B

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




Project Id: 012920024 **Contact:** Dan Moir

Project Location:

Certificate of Analysis Summary 656335

Page 109 of 268

LT Environmental, Inc., Arvada, CO Project Name: PLU 147

Date Received in Lab: Thu Mar-19-20 04:30 pm Report Date: 20-MAR-20 Project Manager: Jessica Kramer

	Lab Id:	656335-0	001	656335-	002	656335-0	003	656335-	004	656335-	005	656335-	006
Are shuris De su ested	Field Id:	PH01		PH01.	A	PH01I	3	PH02	2	PH02	4	PH021	В
Analysis Requested	Depth:	1- ft		4- ft		7- ft		1- ft		4- ft		7- ft	
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-19-20	09:29	Mar-19-20	09:35	Mar-19-20 09:57		Mar-19-20 10:25		Mar-19-20 10:36		Mar-19-20	10:54
BTEX by EPA 8021B	Extracted:	Mar-19-20	18:00	Mar-19-20	18:00	Mar-19-20	18:00	Mar-19-20	18:00	Mar-19-20	18:00	Mar-19-20	18:00
	Analyzed:	Mar-20-20	01:24	Mar-20-20	01:44	Mar-20-20	02:05	Mar-20-20	00:35	Mar-20-20	01:15	Mar-20-20	01:36
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200
Toluene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200
m,p-Xylenes		< 0.00398	0.00398	< 0.00398	0.00398	< 0.00399	0.00399	< 0.00400	0.00400	< 0.00399	0.00399	< 0.00401	0.00401
o-Xylene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200
Total Xylenes		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200
Total BTEX		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200
Chloride by EPA 300	Extracted:	Mar-19-20	18:09	Mar-19-20	18:09	Mar-19-20	18:09	Mar-19-20	18:09	Mar-19-20	18:09	Mar-19-20	18:09
	Analyzed:	Mar-19-20	19:51	Mar-19-20	19:57	Mar-19-20	20:03	Mar-19-20	20:09	Mar-19-20	20:15	Mar-19-20	20:22
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		54.9	10.0	821	10.0	284	9.92	<9.98	9.98	202	9.88	1020	10.1
TPH by SW8015 Mod	Extracted:	Mar-19-20	17:20	Mar-19-20	17:20	Mar-19-20	17:30	Mar-19-20	17:30	Mar-19-20	17:30	Mar-19-20	17:30
	Analyzed:	Mar-19-20	22:37	Mar-19-20	22:58	Mar-20-20	01:40	Mar-20-20	02:40	Mar-20-20	01:40	Mar-20-20	03:00
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		120	49.9	77.4	50.0	<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		62.7	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0
Total GRO-DRO		120	49.9	77.4	50.0	<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0
Total TPH		183	49.9	77.4	50.0	<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0

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

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

Version: 1.%

fession kenner

Jessica Kramer Project Manager

Page 5 of 37





Project Id:012920024Contact:Dan Moir

Contact: Project Location:

Certificate of Analysis Summary 656335

LT Environmental, Inc., Arvada, CO Project Name: PLU 147

Date Received in Lab:Thu Mar-19-20 04:30 pmReport Date:20-MAR-20Project Manager:Jessica Kramer

	Lab Id:	656335-	007	656335-	008	656335-0	009	656335-	010	656335-0)11	
An alugia Boau astad	Field Id:	PH03	;	PH03/	4	PH03I	3	SW04	4	FS04		
Analysis Requested	Depth:	1- ft		4- ft		7- ft		0-4 ft	t	4- ft		
	Matrix:	SOIL	,	SOIL	,	SOIL		SOIL		SOIL		
	Sampled:	Mar-19-20	11:43	Mar-19-20	11:49	Mar-19-20	12:05	Mar-19-20	11:30	Mar-19-20	11:33	
BTEX by EPA 8021B	Extracted:	Mar-19-20	18:00	Mar-19-20	18:00	Mar-19-20	18:00	Mar-19-20	18:00	Mar-19-20	18:00	
	Analyzed:	Mar-20-20	01:56	Mar-20-20	02:17	Mar-20-20	02:37	Mar-20-20	02:57	Mar-20-20 (03:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200	0.0106	0.00625	< 0.0102	0.0102	
Toluene		< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200	0.361	0.00625	0.748	0.0102	
Ethylbenzene		< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200	0.751	0.00625	1.49	0.0102	
m,p-Xylenes		< 0.00402	0.00402	< 0.00395	0.00395	< 0.00399	0.00399	13.4 D	0.399	19.2 D	0.398	
o-Xylene		< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200	1.60 D	0.200	2.31 D	0.199	
Total Xylenes		< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200	15.0	0.200	21.5	0.199	
Total BTEX		< 0.00201	0.00201	< 0.00198	0.00198	< 0.00200	0.00200	16.1	0.00625	23.7	0.0102	
Chloride by EPA 300	Extracted:	Mar-19-20	18:09	Mar-19-20	18:09	Mar-19-20	18:09	Mar-19-20	18:42	Mar-19-20	18:42	
	Analyzed:	Mar-19-20	20:28	Mar-19-20	20:34	Mar-19-20	20:40	Mar-19-20	21:16	Mar-19-20 2	21:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		22.3	9.88	215	9.90	352	10.0	260	9.96	206	9.92	
TPH by SW8015 Mod	Extracted:	Mar-19-20	17:30	Mar-19-20	17:30	Mar-19-20	17:30	Mar-19-20	17:30	Mar-19-20	17:30	
	Analyzed:	Mar-20-20	03:20	Mar-20-20	03:41	Mar-20-20	02:40	Mar-20-20	03:00	Mar-20-20	11:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<50.2	50.2	714	49.8	3270	251	
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<50.2	50.2	2440	49.8	8870	251	
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<50.2	50.2	105	49.8	334	251	
Total GRO-DRO		<50.0	50.0	<49.9	49.9	<50.2	50.2	3150	49.8	12100	251	
Total TPH		<50.0	50.0	<49.9	49.9	<50.2	50.2	3260	49.8	12500	251	

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

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

Version: 1.%

fession kenner

Jessica Kramer Project Manager

Released to Imaging: 1/5/2024 3:07:1174PMM

Page 6 of 37



LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: PH01 Lab Sample Id: 656335-001		Matrix: Date Coll	Soil ected: 03.19	.20 09.29		Date Received:03.1 Sample Depth: 1 ft		0
Analytical Method: Chloride by EP	PA 300				F	Prep Method: E30	0P	
Tech: MAB					9	6 Moisture:		
Analyst: MAB		Date Prep	o: 03.19	.20 18.09	E	Basis: Wet	t Weight	
Seq Number: 3120337								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	54.9	10.0		mg/kg	03.19.20 19.51		1
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3120382	15 Mod	Date Prep	o: 03.19	.20 17.20	9	Prep Method: SW 6 Moisture: Basis: Wet	8015P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	03.19.20 22.37	U	1
Diesel Range Organics (DRO)	C10C28DRO	120	49.9		mg/kg	03.19.20 22.37		1
Motor Oil Range Hydrocarbons (MRO)								
• •	PHCG2835	62.7	49.9		mg/kg	03.19.20 22.37		1
Total GRO-DRO	PHCG2835 PHC628	62.7 120	49.9 49.9		mg/kg mg/kg	03.19.20 22.37 03.19.20 22.37		1 1
								-
Total GRO-DRO	PHC628	120	49.9 49.9 %	Units	mg/kg	03.19.20 22.37	Flag	1
Total GRO-DRO Total TPH	PHC628	120 183	49.9 49.9	Units %	mg/kg mg/kg	03.19.20 22.37 03.19.20 22.37	Flag	1



LT Environmental, Inc., Arvada, CO

Sample Id:PH01Lab Sample Id:656335-001	Matrix: Soil Date Collected: 03.19.20 09.29	Date Received:03.19.20 16.30 Sample Depth: 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120334	Date Prep: 03.19.20 18.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.20.20 01.24	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.20.20 01.24	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.20.20 01.24	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.20.20 01.24	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.20.20 01.24	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.20.20 01.24	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.20.20 01.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	93	%	70-130	03.20.20 01.24		
1,4-Difluorobenzene		540-36-3	117	%	70-130	03.20.20 01.24		



LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id:PH01ALab Sample Id:656335-002		Matrix: Date Colle	Soil ected: 03.19	.20 09.35		Date Received:03.2 ample Depth:4 ft		0
Analytical Method: Chloride by EP. Tech: MAB	A 300					rep Method: E30 6 Moisture:	OP	
Analyst: MAB Seq Number: 3120337		Date Prep:	03.19	.20 18.09	E	Basis: We	t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	821	10.0		mg/kg	03.19.20 19.57		1
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3120382	5 Mod	Date Prep:	03.19	.20 17.20	9	rep Method: SW 6 Moisture: Basis: We	8015P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	03.19.20 22.58	U	1
Diesel Range Organics (DRO)	C10C28DRO	77.4	50.0		mg/kg	03.19.20 22.58		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	03.19.20 22.58	U	1
Total GRO-DRO	PHC628	77.4	50.0		mg/kg	03.19.20 22.58		1
Total TPH	PHC635	77.4	50.0		mg/kg	03.19.20 22.58		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane								
1 Chiorobetane		111-85-3	98	%	70-135	03.19.20 22.58		



LT Environmental, Inc., Arvada, CO

Sample Id:PH01ALab Sample Id:656335-002	Matrix: Soil Date Collected: 03.19.20 09.35	Date Received:03.19.20 16.30 Sample Depth: 4 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120334	Date Prep: 03.19.20 18.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.20.20 01.44	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.20.20 01.44	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.20.20 01.44	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.20.20 01.44	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.20.20 01.44	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.20.20 01.44	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.20.20 01.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	96	%	70-130	03.20.20 01.44		
1,4-Difluorobenzene		540-36-3	118	%	70-130	03.20.20 01.44		



LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: PH01B Lab Sample Id: 656335-003		Matrix: Date Colle	Soil cted: 03.19.20 09.5	7	Date Received:03. Sample Depth: 7 ft		0
Analytical Method: Chloride by EP Tech: MAB	A 300				Prep Method: E30 % Moisture:)0P	
Analyst: MAB Seq Number: 3120337		Date Prep:	03.19.20 18.0	9	Basis: We	t Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	284	9.92	mg/kg	03.19.20 20.03		1
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3120406	5 Mod	Date Prep:	03.19.20 17.3	0	Prep Method: SW % Moisture: Basis: We	78015P t Weight	
Tech: DTH Analyst: DTH	5 Mod Cas Number	Date Prep: Result	03.19.20 17.3 RL	0 Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3120406		ľ			% Moisture: Basis: We	t Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3120406 Parameter	Cas Number	Result	RL	Units	 Moisture: Basis: We Analysis Date 	t Weight Flag	
Tech:DTHAnalyst:DTHSeq Number:3120406ParameterGasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.9	RL 49.9	Units mg/kg	% Moisture: Basis: We Analysis Date 03.20.20 01.40	t Weight Flag U	1
Tech:DTHAnalyst:DTHSeq Number:3120406ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <49.9 <49.9	RL 49.9 49.9	Units mg/kg mg/kg	% Moisture: Basis: We Analysis Date 03.20.20 01.40 03.20.20 01.40	t Weight Flag U U	1
Tech:DTHAnalyst:DTHSeq Number:3120406ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9	Units mg/kg mg/kg mg/kg	Analysis Date 03.20.20 01.40 03.20.20 01.40 03.20.20 01.40 03.20.20 01.40	t Weight Flag U U U	1 1 1

108

%

70-135

03.20.20 01.40

84-15-1

o-Terphenyl



LT Environmental, Inc., Arvada, CO

Sample Id:PH01BLab Sample Id:656335-003	Matrix: Soil Date Collected: 03.19.20 09.57	Date Received:03.19.20 16.30 Sample Depth: 7 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120334	Date Prep: 03.19.20 18.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.20.20 02.05	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.20.20 02.05	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.20.20 02.05	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	03.20.20 02.05	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.20.20 02.05	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.20.20 02.05	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.20.20 02.05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	70-130	03.20.20 02.05		
1,4-Difluorobenzene		540-36-3	118	%	70-130	03.20.20 02.05		



1-Chlorooctane

o-Terphenyl

Certificate of Analytical Results 656335

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: PH02 Lab Sample Id: 656335-004		Matrix: Date Colle	Soil ected: 03.19.20 10.25		Date Received:03. Sample Depth: 1 ft		0
Analytical Method: Chloride by EF	PA 300				Prep Method: E30		
Tech: MAB					% Moisture:		
Analyst: MAB		Date Prep	: 03.19.20 18.09			t Weight	
Seq Number: 3120337		Date Hep	. 03.19.20 10.09	1		t weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	03.19.20 20.09	U	1
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3120406	15 100	Date Prep	: 03.19.20 17.30	0	Prep Method: SW % Moisture: Basis: We	t Weight	
Parameter	Cas Number	Result	RL				
	Cas Number	Result	KL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	Units mg/kg	Analysis Date 03.20.20 02.40	Flag U	Dil
					•	6	
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.20.20 02.40	U	1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	PHC610 C10C28DRO	<49.9 <49.9	49.9 49.9	mg/kg mg/kg	03.20.20 02.40 03.20.20 02.40	U U U	1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835	<49.9 <49.9 <49.9	49.9 49.9 49.9	mg/kg mg/kg mg/kg	03.20.20 02.40 03.20.20 02.40 03.20.20 02.40	U U U U	1 1 1

100

108

%

%

70-135

70-135

03.20.20 02.40

03.20.20 02.40

111-85-3

84-15-1



LT Environmental, Inc., Arvada, CO

Sample Id: PH02 Lab Sample Id: 656335-004	Matrix: Soil Date Collected: 03.19.20 10.25	Date Received:03.19.20 16.30 Sample Depth: 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120335	Date Prep: 03.19.20 18.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.20.20 00.35	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.20.20 00.35	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.20.20 00.35	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	03.20.20 00.35	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.20.20 00.35	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.20.20 00.35	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.20.20 00.35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	108	%	70-130	03.20.20 00.35		
4-Bromofluorobenzene		460-00-4	93	%	70-130	03.20.20 00.35		



LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: PH02A Lab Sample Id: 656335-005		Matrix: Date Colle	Soil cted: 03.19	.20 10.36		Date Received:03. Sample Depth: 4 ft		0
Analytical Method: Chloride by EP. Tech: MAB	A 300					Prep Method: E30 % Moisture:	OP	
			02.10	20.10.00			W 7 * 1 /	
Analyst: MAB		Date Prep:	03.19	.20 18.09	1	Basis: Wet	t Weight	
Seq Number: 3120337								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	202	9.88		mg/kg	03.19.20 20.15		1
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3120403	5 Mod	Date Prep:	03.19	.20 17.30	0	Prep Method: SW % Moisture: Basis: Wet	8015P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	03.20.20 01.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	03.20.20 01.40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	03.20.20 01.40	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	03.20.20 01.40	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	03.20.20 01.40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	102	%	70-135	03.20.20 01.40		
o-Terphenyl		84-15-1	110	%	70-135	03.20.20 01.40		



LT Environmental, Inc., Arvada, CO

Sample Id:PH02ALab Sample Id:656335-005	Matrix: Soil Date Collected: 03.19.20 10.36	Date Received:03.19.20 16.30 Sample Depth: 4 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120335	Date Prep: 03.19.20 18.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.20.20 01.15	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.20.20 01.15	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.20.20 01.15	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	03.20.20 01.15	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.20.20 01.15	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.20.20 01.15	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.20.20 01.15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	109	%	70-130	03.20.20 01.15		
4-Bromofluorobenzene		460-00-4	95	%	70-130	03.20.20 01.15		



LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id:PH02BLab Sample Id:656335-006		Matrix: Date Colle	Soil cted: 03.19	.20 10.54		Date Received:03. Sample Depth: 7 ft		0
Analytical Method: Chloride by EP	A 300				F	Prep Method: E30	00P	
Tech: MAB					9	% Moisture:		
Analyst: MAB		Date Prep:	03.19	.20 18.09	E	Basis: We	t Weight	
Seq Number: 3120337								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1020	10.1		mg/kg	03.19.20 20.22		1
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3120406	15 Mod	Date Prep:	03.19	.20 17.30	9	Prep Method: SW % Moisture: Basis: We	78015P t Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Prep: Result	03.19 RL	.20 17.30	9	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3120406		-		.20 17.30	9 E	Moisture: Basis: We	t Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3120406 Parameter	Cas Number	Result	RL	.20 17.30	9 E Units	Moisture: Basis: We Analysis Date	t Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3120406 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 50.0	.20 17.30	9 E Units mg/kg	Moisture: Basis: We Analysis Date 03.20.20 03.00	t Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3120406 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.0 <50.0	RL 50.0 50.0	.20 17.30	9 E Units mg/kg mg/kg	Moisture: Basis: We Analysis Date 03.20.20 03.00 03.20.20 03.00	t Weight Flag U U	1 1
Tech: DTH Analyst: DTH Seq Number: 3120406 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result <50.0 <50.0	RL 50.0 50.0 50.0	.20 17.30	9 E Units mg/kg mg/kg mg/kg	Moisture: Basis: Wer Analysis Date 03.20.20 03.00 03.20.20 03.00 03.20.20 03.00	t Weight Flag U U U U	1 1 1
Tech:DTHAnalyst:DTHSeq Number:3120406ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628	Result <50.0	RL 50.0 50.0 50.0 50.0	.20 17.30 Units	9 E Units mg/kg mg/kg mg/kg mg/kg	Moisture: 3asis: Wei Analysis Date 03.20.20 03.00 03.20.20 03.00 03.20.20 03.00 03.20.20 03.00 03.20.20 03.00 03.20.20 03.00 03.20.20 03.00	t Weight Flag U U U U U	1 1 1 1
Tech: DTH Analyst: DTH Seq Number: 3120406 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result <50.0	RL 50.0 50.0 50.0 50.0 50.0 50.0 %		9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	Moisture: Basis: Wei Analysis Date 03.20.20 03.00 03.20.20 03.00 03.20.20 03.00 03.20.20 03.00 03.20.20 03.00 03.20.20 03.00 03.20.20 03.00 03.20.20 03.00 03.20.20 03.00 03.20.20 03.00	t Weight Flag U U U U U U	1 1 1 1



LT Environmental, Inc., Arvada, CO

Sample Id:PH02BLab Sample Id:656335-006	Matrix: Soil Date Collected: 03.19.20 10.54	Date Received:03.19.20 16.30 Sample Depth: 7 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120335	Date Prep: 03.19.20 18.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.20.20 01.36	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.20.20 01.36	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.20.20 01.36	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	03.20.20 01.36	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.20.20 01.36	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.20.20 01.36	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.20.20 01.36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	96	%	70-130	03.20.20 01.36		
1,4-Difluorobenzene		540-36-3	106	%	70-130	03.20.20 01.36		



LT Environmental, Inc., Arvada, CO

Sample Id:PH03Lab Sample Id:656335-007		Matrix: Date Collec	Soil eted: 03.19.20 11.43		Date Received:03. Sample Depth: 1 ft)
Analytical Method: Chloride by EP	A 300				Prep Method: E3	00P	
Tech: MAB					% Moisture:		
Analyst: MAB		Date Prep:	03.19.20 18.09		Basis: We	et Weight	
Seq Number: 3120337							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.3	9.88	mg/kg	03.19.20 20.28		1
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3120406	5 Mod	Date Prep:	03.19.20 17.30		Prep Method: SW % Moisture: Basis: We	78015P et Weight	
Tech: DTH Analyst: DTH	.5 Mod Cas Number	-	03.19.20 17.30 RL		% Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3120406		-			% Moisture: Basis: We	et Weight	Dil
Tech: DTH Analyst: DTH Seq Number: 3120406 Parameter	Cas Number	Result	RL	Units	% Moisture: Basis: We Analysis Date	et Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3120406 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 50.0	Units mg/kg	% Moisture: Basis: We Analysis Date 03.20.20 03.20	et Weight Flag U	
Tech:DTHAnalyst:DTHSeq Number:3120406ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.0 <50.0	RL 50.0 50.0	Units mg/kg mg/kg	 Moisture: Basis: We Analysis Date 03.20.20 03.20 03.20.20 03.20 	et Weight Flag U U	1 1

Total TPH	PHC635	<50.0	50.0		mg/kg	03.20.20 03.20	U
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane		111-85-3	107	%	70-135	03.20.20 03.20	
o-Terphenyl		84-15-1	117	%	70-135	03.20.20 03.20	



LT Environmental, Inc., Arvada, CO

Sample Id:PH03Lab Sample Id:656335-007	Matrix: Soil Date Collected: 03.19.20 11.43	Date Received:03.19.20 16.30 Sample Depth: 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120335	Date Prep: 03.19.20 18.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.20.20 01.56	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.20.20 01.56	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.20.20 01.56	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	03.20.20 01.56	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	03.20.20 01.56	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	03.20.20 01.56	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	03.20.20 01.56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	70-130	03.20.20 01.56		
1,4-Difluorobenzene		540-36-3	108	%	70-130	03.20.20 01.56		



LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id:PH03ALab Sample Id:656335-008		Matrix: Date Colle	Soil cted: 03.19	.20 11.49		Date Received:03.2 Sample Depth: 4 ft		0
Analytical Method: Chloride by EP	PA 300				P	Prep Method: E30	00P	
Tech: MAB					9	6 Moisture:		
Analyst: MAB		Date Prep:	03.19	.20 18.09	E	Basis: We	t Weight	
Seq Number: 3120337								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	215	9.90		mg/kg	03.19.20 20.34		1
Analytical Method: TPH by SW801	15 Mod				P	Prep Method: SW	8015P	
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3120406	15 Mod	Date Prep:	03.19	.20 17.30	9	6 Moisture:	8015P t Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Prep: Result	03.19 RL	.20 17.30	9	6 Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3120406		-		.20 17.30	9 E	6 Moisture: Basis: We	t Weight	Dil 1
Tech: DTH Analyst: DTH Seq Number: 3120406 Parameter	Cas Number	Result	RL	.20 17.30	% E Units	6 Moisture: Basis: We Analysis Date	t Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3120406 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.9	RL 49.9	.20 17.30	% E Units mg/kg	6 Moisture: Basis: We Analysis Date 03.20.20 03.41	t Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3120406 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <49.9 <49.9	RL 49.9 49.9	.20 17.30	9 E Units mg/kg mg/kg	6 Moisture: Basis: Wes Analysis Date 03.20.20 03.41 03.20.20 03.41	t Weight Flag U U	1 1
Tech: DTH Analyst: DTH Seq Number: 3120406 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result <49.9 <49.9 <49.9	RL 49.9 49.9 49.9	.20 17.30	9 E Units mg/kg mg/kg mg/kg	Analysis Date 03.20.20 03.41 03.20.20 03.41 03.20.20 03.41	t Weight Flag U U U	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3120406 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <	RL 49.9 49.9 49.9 49.9 49.9 49.9 %	.20 17.30 Units	9 E Units mg/kg mg/kg mg/kg mg/kg	Analysis Date 03.20.20 03.41 03.20.20 03.41 03.20.20 03.41 03.20.20 03.41 03.20.20 03.41 03.20.20 03.41	t Weight Flag U U U U U	1 1 1 1
Tech: DTH Analyst: DTH Seq Number: 3120406 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC628	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <	RL 49.9 49.9 49.9 49.9 49.9		9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	6 Moisture: Basis: Wer 03.20.20 03.41 03.20.20 03.41 03.20.20 03.41 03.20.20 03.41 03.20.20 03.41 03.20.20 03.41	t Weight Flag U U U U U U	1 1 1 1



LT Environmental, Inc., Arvada, CO

Sample Id:PH03ALab Sample Id:656335-008	Matrix: Soil Date Collected: 03.19.20 11.49	Date Received:03.19.20 16.30 Sample Depth: 4 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120335	Date Prep: 03.19.20 18.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198		mg/kg	03.20.20 02.17	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	03.20.20 02.17	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	03.20.20 02.17	U	1
m,p-Xylenes	179601-23-1	< 0.00395	0.00395		mg/kg	03.20.20 02.17	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	03.20.20 02.17	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	03.20.20 02.17	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	03.20.20 02.17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	70-130	03.20.20 02.17		
1,4-Difluorobenzene		540-36-3	108	%	70-130	03.20.20 02.17		



LT Environmental, Inc., Arvada, CO

Sample Id: PH03B Lab Sample Id: 656335-009		Matrix: Date Colle	Soil ected: 03.19	.20 12.05		Date Received:03. Sample Depth: 7 ft		0
Analytical Method: Chloride by EPA	A 300				I	Prep Method: E30)0P	
Tech: MAB					ç	% Moisture:		
Analyst: MAB		Date Prep	. 03.19	.20 18.09	1	Basis: We	t Weight	
Seq Number: 3120337								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	352	10.0		mg/kg	03.19.20 20.40		1
Analytical Method:TPH by SW801.Tech:DTHAnalyst:DTHSeq Number:3120403	5 Mod	Date Prep	o: 03.19	.20 17.30	Ģ	Prep Method: SW % Moisture: Basis: We	78015P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.2	RL 50.2		Units mg/kg	Analysis Date 03.20.20 02.40	Flag U	Dil
						•		
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	03.20.20 02.40	U	1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	PHC610 C10C28DRO	<50.2 <50.2	50.2 50.2		mg/kg mg/kg	03.20.20 02.40 03.20.20 02.40	U U U	1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835	<50.2 <50.2 <50.2	50.2 50.2 50.2		mg/kg mg/kg mg/kg	03.20.20 02.40 03.20.20 02.40 03.20.20 02.40	U U U U	1 1 1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	PHC610 C10C28DRO PHCG2835 PHC628	<50.2 <50.2 <50.2 <50.2 <50.2 <50.2	50.2 50.2 50.2 50.2 50.2 50.2	Units	mg/kg mg/kg mg/kg mg/kg	03.20.20 02.40 03.20.20 02.40 03.20.20 02.40 03.20.20 02.40 03.20.20 02.40	U U U U U	1 1 1 1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	PHC610 C10C28DRO PHCG2835 PHC628	<50.2 <50.2 <50.2 <50.2 <50.2 <50.2	50.2 50.2 50.2 50.2 50.2 50.2	Units %	mg/kg mg/kg mg/kg mg/kg mg/kg	03.20.20 02.40 03.20.20 02.40 03.20.20 02.40 03.20.20 02.40 03.20.20 02.40 03.20.20 02.40	U U U U U U	1 1 1 1



LT Environmental, Inc., Arvada, CO

Sample Id:PH03BLab Sample Id:656335-009	Matrix: Soil Date Collected: 03.19.20 12.05	Date Received:03.19.20 16.30 Sample Depth: 7 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120335	Date Prep: 03.19.20 18.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.20.20 02.37	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.20.20 02.37	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.20.20 02.37	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	03.20.20 02.37	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.20.20 02.37	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.20.20 02.37	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.20.20 02.37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	70-130	03.20.20 02.37		
1,4-Difluorobenzene		540-36-3	106	%	70-130	03.20.20 02.37		



LT Environmental, Inc., Arvada, CO

Sample Id: SW04 Lab Sample Id: 656335-010		Matrix: Date Colle	Soil cted: 03.19	.20 11.30		Date Received:03. Sample Depth: 0 - 4		0
Analytical Method: Chloride by EPA Tech: MAB	A 300					Prep Method: E30 6 Moisture:	00P	
Analyst: MAB		Date Prep:	03.19	.20 18.42	E	Basis: Wet	t Weight	
Seq Number: 3120338								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	260	9.96		mg/kg	03.19.20 21.16		1
Analytical Method:TPH by SW8015Tech:DTHAnalyst:DTHSeq Number:3120403	5 Mod	Date Prep:	03.19	.20 17.30	9	Prep Method: SW 6 Moisture: Basis: Wet	8015P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	714	49.8		mg/kg	03.20.20 03.00		1
Diesel Range Organics (DRO)	C10C28DRO	2440	49.8		mg/kg	03.20.20 03.00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	105	49.8		mg/kg	03.20.20 03.00		1
Total GRO-DRO	PHC628	3150	49.8		mg/kg	03.20.20 03.00		1
Total TPH	PHC635	3260	49.8		mg/kg	03.20.20 03.00		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	111	%	70-135	03.20.20 03.00		
o-Terphenyl		84-15-1	108	%	70-135	03.20.20 03.00		



LT Environmental, Inc., Arvada, CO

Sample Id:SW04Lab Sample Id:656335-010	Matrix: Soil Date Collected: 03.19.20 11.30	Date Received:03.19.20 16.30 Sample Depth: 0 - 4 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120335	Date Prep: 03.19.20 18.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0106	0.00625		mg/kg	03.20.20 02.57		1
Toluene	108-88-3	0.361	0.00625		mg/kg	03.20.20 02.57		1
Ethylbenzene	100-41-4	0.751	0.00625		mg/kg	03.20.20 02.57		1
m,p-Xylenes	179601-23-1	13.4	0.399		mg/kg	03.20.20 09.34	D	100
o-Xylene	95-47-6	1.60	0.200		mg/kg	03.20.20 09.34	D	100
Total Xylenes	1330-20-7	15.0	0.200		mg/kg	03.20.20 09.34		100
Total BTEX		16.1	0.00625		mg/kg	03.20.20 09.34		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	03.20.20 02.57		
4-Bromofluorobenzene		460-00-4	96	%	70-130	03.20.20 02.57		



LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id:FS04Lab Sample Id:656335-011		Matrix: Date Coll	Soil ected: 03.19	.20 11.33		Date Received:03. Sample Depth: 4 ft		0
Analytical Method: Chloride by EPA	A 300				F	Prep Method: E30	00P	
Tech: MAB					9	% Moisture:		
Analyst: MAB		Date Prep	o: 03.19	.20 18.42	E	Basis: We	t Weight	
Seq Number: 3120338		-						
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	206	9.92		mg/kg	03.19.20 21.35		1
Analytical Method: TPH by SW801:	5 Mod				F	Prep Method: SW	78015P	
Analytical Method: TPH by SW801: Tech: DTH Analyst: DTH Seq Number: 3120403	5 Mod	Date Prep	o: 03.19	.20 17.30	9	% Moisture:	78015P t Weight	
Tech: DTH Analyst: DTH	5 Mod Cas Number	Date Prep Result	o: 03.19 RL	.20 17.30	9	% Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3120403				.20 17.30	9 E	Moisture: Basis: We	t Weight	Dil 5
Tech: DTH Analyst: DTH Seq Number: 3120403 Parameter	Cas Number	Result	RL	.20 17.30	9 E Units	Moisture: Basis: We Analysis Date	t Weight	
Tech: DTH Analyst: DTH Seq Number: 3120403 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result 3270	RL 251	.20 17.30	9 E Units mg/kg	Moisture: Basis: We Analysis Date 03.20.20 11.39	t Weight	5
Tech: DTH Analyst: DTH Seq Number: 3120403 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 3270 8870	RL 251 251	.20 17.30	9 E Units mg/kg mg/kg	Moisture: Basis: We Analysis Date 03.20.20 11.39 03.20.20 11.39	t Weight	5 5
Tech: DTH Analyst: DTH Seq Number: 3120403 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result 3270 8870 334	RL 251 251 251	.20 17.30	9 E Units mg/kg mg/kg mg/kg	Moisture: Basis: We Analysis Date 03.20.20 11.39 03.20.20 11.39 03.20.20 11.39	t Weight	5 5 5
Tech: DTH Analyst: DTH Seq Number: 3120403 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628	Result 3270 8870 334 12100 12500	RL 251 251 251 251 251 9%	.20 17.30 Units	9 E Units mg/kg mg/kg mg/kg mg/kg	Moisture: Basis: We 03.20.20 11.39 03.20.20 11.39 03.20.20 11.39 03.20.20 11.39	t Weight	5 5 5 5
Tech: DTH Analyst: DTH Seq Number: 3120403 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 3270 8870 334 12100 12500	RL 251 251 251 251 251 251		9 E Units mg/kg mg/kg mg/kg mg/kg mg/kg	Moisture: Basis: We <u>Analysis Date</u> 03.20.20 11.39 03.20.20 11.39 03.20.20 11.39 03.20.20 11.39 03.20.20 11.39	t Weight Flag	5 5 5 5



LT Environmental, Inc., Arvada, CO

Sample Id: FS04	Matrix: Soil	Date Received:03.19.20 16.30
Lab Sample Id: 656335-011	Date Collected: 03.19.20 11.33	Sample Depth: 4 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3120335	Date Prep: 03.19.20 18.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0102	0.0102		mg/kg	03.20.20 03.18	U	1
Toluene	108-88-3	0.748	0.0102		mg/kg	03.20.20 03.18		1
Ethylbenzene	100-41-4	1.49	0.0102		mg/kg	03.20.20 03.18		1
m,p-Xylenes	179601-23-1	19.2	0.398		mg/kg	03.20.20 10.56	D	100
o-Xylene	95-47-6	2.31	0.199		mg/kg	03.20.20 10.56	D	100
Total Xylenes	1330-20-7	21.5	0.199		mg/kg	03.20.20 10.56		100
Total BTEX		23.7	0.0102		mg/kg	03.20.20 10.56		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	03.20.20 03.18		
4-Bromofluorobenzene		460-00-4	100	%	70-130	03.20.20 03.18		



Flagging Criteria

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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

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



QC Summary 656335

LT Environmental, Inc. PLU 147

Analytical Method: Chloride by EPA 300 E300P Prep Method: Seq Number: 3120337 Matrix: Solid Date Prep: 03.19.20 LCS Sample Id: 7699316-1-BKS LCSD Sample Id: 7699316-1-BSD MB Sample Id: 7699316-1-BLK %RPD RPD Limit Units MB Spike LCS LCS Limits LCSD LCSD Analysis Flag Parameter Result Amount Result %Rec Date Result %Rec Chloride <10.0 250 261 104 261 104 90-110 0 20 03.19.20 17:41 mg/kg

Analytical Method:	Chloride by EPA 30	00						Pr	ep Metho	od: E30	OP	
Seq Number:	3120338			Matrix:	Solid				Date Pre	ep: 03.1	9.20	
MB Sample Id:	7699322-1-BLK		LCS Sar	nple Id:	7699322-	1-BKS		LCS	D Sample	e Id: 7699	9322-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	<10.0	250	261	104	261	104	90-110	0	20	mg/kg	03.19.20 21:04	

Analytical Method:	Chloride by EPA 30)0						Р	rep Meth	od: E30	0P	
Seq Number:	3120337			Matrix:	Soil				Date Pr	ep: 03.1	9.20	
Parent Sample Id:	656277-013		MS Sar	nple Id:	656277-01	13 S		MS	D Sample	e Id: 6562	277-013 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	141	200	354	107	352	106	90-110	1	20	mg/kg	03.19.20 18:00	

Analytical Method:	Chloride by EPA 30)0						Pı	ep Metho	od: E30	0P	
Seq Number:	3120337			Matrix:	Soil				Date Pre	ep: 03.1	9.20	
Parent Sample Id:	656301-002		MS Sar	nple Id:	656301-00	02 S		MS	D Sample	e Id: 656	301-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	295	200	508	107	507	106	90-110	0	20	mg/kg	03.19.20 19:26	

Analytical Method:	Chloride by EPA 30	00						Р	rep Meth	od: E30	0P	
Seq Number:	3120338			Matrix:	Soil				Date Pr	ep: 03.1	9.20	
Parent Sample Id:	656335-010		MS Sar	nple Id:	656335-01	10 S		MS	D Sample	e Id: 656	335-010 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	260	200	476	108	476	108	90-110	0	20	mg/kg	03.19.20 21:23	

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



QC Summary 656335

LT Environmental, Inc. PLU 147

Analytical Method:	TPH by S	od]	Prep Method	l: SW8	8015P		
Seq Number:	3120382				Matrix:	Solid				Date Prep	p: 03.1	9.20	
MB Sample Id:	7699380-1	-BLK		LCS Sar	nple Id:	7699380-	1-BKS		LC	SD Sample	ld: 769	9380-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPE	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	oons (GRO)	< 50.0	1000	938	94	1050	105	70-135	11	35	mg/kg	03.19.20 14:52	
Diesel Range Organics	(DRO)	<50.0	1000	1050	105	1160	116	70-135	10	35	mg/kg	03.19.20 14:52	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane		88		1	11		126		7	70-135	%	03.19.20 14:52	
o-Terphenyl		98		1	19		134		7	70-135	%	03.19.20 14:52	

Analytical Method: Seq Number:	3120403		od		Matrix:		1 DVC			Prep Method Date Prej	p: 03.1		
MB Sample Id:	7699371-1	-BLK		LCS Sar	npie ia:	7699371-	I-BKS		LC	SD Sample	10: 7095	9371-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	1000	1030	103	959	96	70-135	7	35	mg/kg	03.20.20 00:59	
Diesel Range Organics	(DRO)	<50.0	1000	1140	114	1070	107	70-135	6	35	mg/kg	03.20.20 00:59	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane		102		1	22		118			70-135	%	03.20.20 00:59	
o-Terphenyl		109		1	28		122		,	70-135	%	03.20.20 00:59	

Analytical Method: Seq Number: MB Sample Id:	LCS Sar	Solid 7699373-	Prep Method: SW8015P Date Prep: 03.19.20 LCSD Sample Id: 7699373-1-BSD										
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	936	94	868	87	70-135	8	35	mg/kg	03.20.20 00:59	
Diesel Range Organics	(DRO)	< 50.0	1000	1040	104	983	98	70-135	6	35	mg/kg	03.20.20 00:59	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			limits	Units	Analysis Date	
1-Chlorooctane		87		1	11		105		7	0-135	%	03.20.20 00:59	
o-Terphenyl		95		1	18		112		7	0-135	%	03.20.20 00:59	

Analytical Method: TP	H by SW8015 Mod	Prep M	ethod: S	W8015P	
Seq Number: 312	0382 Matrix:	Solid Date	Prep: 03	3.19.20	
	MB Sample Id	: 7699380-1-BLK			
Parameter	MB Result		Units	s Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO) <50.0		mg/kg	g 03.19.20 14:32	
MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery	[D] = 100*(C-A) / B RPD = 200* (C-E) / (C+E) [D] = 100*(C) / [B]	LCS = Laboratory Control Samp A = Parent Result C = MS/LCS Result	$\mathbf{B} =$	= Matrix Spike Spike Added MSD/LCSD % Rec	

Released to Imaging: 1/5/2024 3:07:0174PMM

Log Difference

Page 31 of 37

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

.

E = MSD/LCSD Result



QC Summary 656335

LT Environmental, Inc. PLU 147

Analytical Method:TPH by SW8015 ModSeq Number:3120403	Matrix: MB Sample Id:	Solid 7699371-1-BLK	Prep Method: Date Prep:		8015P 9.20	
Parameter	MB Result		τ	U nits	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0		n	ng/kg	03.20.20 00:39	
Analytical Method: TPH by SW8015 Mod			Prep Method:	SW8	3015P	
Seq Number: 3120406	Matrix:	Solid	Date Prep:	03.1	9.20	

	MB Sample Id: 7699373-1-BLK	
Parameter	MB Result	Units Analysis Flag Date
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg 03.20.20 00:39

Analytical Method: Seq Number: Parent Sample Id:	lod	MS San	Soil 656196-00	Prep Method: SW8015P Date Prep: 03.19.20 MSD Sample Id: 656196-001 SD									
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	O RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.1	1000	903	90	924	92	70-135	2	35	mg/kg	03.19.20 15:53	
Diesel Range Organics	(DRO)	< 50.1	1000	983	98	1020	102	70-135	4	35	mg/kg	03.19.20 15:53	
Surrogate					IS Rec	MS Flag	MSD %Re			Limits	Units	Analysis Date	
1-Chlorooctane				1	06		111			70-135	%	03.19.20 15:53	
o-Terphenyl				1	11		117			70-135	%	03.19.20 15:53	

Analytical Method:	TPH by S	W8015 M	lod						F	Prep Method	i: SW	8015P	
Seq Number: 3120403				Matrix: Soil						Date Prep	p: 03.1	9.20	
Parent Sample Id: 656335-005			MS Sar	nple Id:	656335-0	05 S		MS	SD Sample	Id: 656	335-005 SD		
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	999	882	88	974	98	70-135	10	35	mg/kg	03.20.20 02:00	
Diesel Range Organics	(DRO)	<50.0	999	967	97	1070	107	70-135	10	35	mg/kg	03.20.20 02:00	
Surrogate					AS Rec	MS Flag	MSD %Ree		_	Limits	Units	Analysis Date	
1-Chlorooctane				1	16		121		7	0-135	%	03.20.20 02:00	
o-Terphenyl				1	17		126		7	0-135	%	03.20.20 02:00	

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



QC Summary 656335

LT Environmental, Inc. PLU 147

Analytical Method:TPH by \$Seq Number:3120406Parent Sample Id:656335-0		lod		Matrix: nple Id:		03 S			ep Method Date Prep Sample I	p: 03.1	8015P 9.20 335-003 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD F	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	< 50.2	1000	880	88	985	99	70-135	11	35	mg/kg	03.20.20 02:00	
Diesel Range Organics (DRO)	< 50.2	1000	990	99	1080	108	70-135	9	35	mg/kg	03.20.20 02:00	
Surrogate				AS Rec	MS Flag	MSD %Re			nits	Units	Analysis Date	
1-Chlorooctane			1	15		122		70-	135	%	03.20.20 02:00	
o-Terphenyl			1	16		128		70-	135	%	03.20.20 02:00	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3120334 7699317-1-BLK	1B	LCS San	Matrix: nple Id:		1-BKS			Prep Method Date Prep SD Sample	p: 03.1	5030B 9.20 9317-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.122	122	0.124	124	70-130	2	35	mg/kg	03.19.20 16:34	
Toluene	< 0.00200	0.100	0.111	111	0.113	113	70-130	2	35	mg/kg	03.19.20 16:34	
Ethylbenzene	< 0.00200	0.100	0.103	103	0.105	105	71-129	2	35	mg/kg	03.19.20 16:34	
m,p-Xylenes	< 0.00400	0.200	0.200	100	0.204	102	70-135	2	35	mg/kg	03.19.20 16:34	
o-Xylene	< 0.00200	0.100	0.102	102	0.104	104	71-133	2	35	mg/kg	03.19.20 16:34	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	117		1	12		110			70-130	%	03.19.20 16:34	
4-Bromofluorobenzene	92		8	37		88			70-130	%	03.19.20 16:34	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3120335 7699325-1-BLK	1B	LCS Sar	Matrix: nple Id:		1-BKS			Prep Metho Date Pre SD Sample	p: 03.1	5030B 9.20 9325-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	ORPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.107	107	0.105	105	70-130	2	35	mg/kg	03.19.20 23:13	
Toluene	< 0.00200	0.100	0.103	103	0.101	101	70-130	2	35	mg/kg	03.19.20 23:13	
Ethylbenzene	< 0.00200	0.100	0.0978	98	0.0955	96	71-129	2	35	mg/kg	03.19.20 23:13	
m,p-Xylenes	< 0.00400	0.200	0.201	101	0.197	99	70-135	2	35	mg/kg	03.19.20 23:13	
o-Xylene	< 0.00200	0.100	0.102	102	0.0994	99	71-133	3	35	mg/kg	03.19.20 23:13	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	108		1	08		108			70-130	%	03.19.20 23:13	
4-Bromofluorobenzene	93		9	93		94			70-130	%	03.19.20 23:13	

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

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

LCS = Laboratory Control SampleA = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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





QC Summary 656335

LT Environmental, Inc. PLU 147

Analytical Method: BTEX by EPA 8021B

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3120334 656277-007	1B	MS San	Matrix: nple Id:	Soil 656277-00	07 S			Prep Method Date Prej SD Sample	p: 03.1	5030B 9.20 277-007 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPE	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.121	121	0.124	124	70-130	2	35	mg/kg	03.19.20 17:15	
Toluene	< 0.00200	0.100	0.110	110	0.113	113	70-130	3	35	mg/kg	03.19.20 17:15	
Ethylbenzene	< 0.00200	0.100	0.102	102	0.106	106	71-129	4	35	mg/kg	03.19.20 17:15	
m,p-Xylenes	< 0.00401	0.200	0.201	101	0.206	102	70-135	2	35	mg/kg	03.19.20 17:15	
o-Xylene	< 0.00200	0.100	0.101	101	0.103	103	71-133	2	35	mg/kg	03.19.20 17:15	
Surrogate				1S Rec	MS Flag	MSD %Re		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	11		111		7	70-130	%	03.19.20 17:15	
4-Bromofluorobenzene			8	38		86		7	70-130	%	03.19.20 17:15	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3120335 656335-004	1B	MS San	Matrix: nple Id:		04 S			Prep Metho Date Pre SD Sample	p: 03.1	5030B 9.20 335-004 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.114	114	0.110	110	70-130	4	35	mg/kg	03.19.20 23:54	
Toluene	< 0.00200	0.0998	0.110	110	0.105	105	70-130	5	35	mg/kg	03.19.20 23:54	
Ethylbenzene	< 0.00200	0.0998	0.106	106	0.0998	100	71-129	6	35	mg/kg	03.19.20 23:54	
m,p-Xylenes	< 0.00399	0.200	0.219	110	0.206	104	70-135	6	35	mg/kg	03.19.20 23:54	
o-Xylene	< 0.00200	0.0998	0.109	109	0.103	103	71-133	6	35	mg/kg	03.19.20 23:54	
Surrogate				1S Rec	MS Flag	MSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	07		108			70-130	%	03.19.20 23:54	
4-Bromofluorobenzene			ç	94		94			70-130	%	03.19.20 23:54	

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

Atlanta, GA (170) 449-8800 Bill to: (if different) Kyle Littrell Company Name: XTO Energy, Inc. Address: 3104 E Greene St City, State ZIP: Carlsbad, NM 88220 Email: fsmith@ltenv.com, dmoir@ltenv.com Net ice: Tes No Due Date: Due Date: PA 300.0)	Bill to: (if different) Kyle Company Name: XTC Company Name: XTC Address: 310 Email: Ismith@ltenv.com, dn Turn Around Rush: Rush: 24 hrg Due Date: Image: Company Name: r of Containers 70.7
8015) 3104 E Greene St A 0=8021) anisbad, NM 86220	A 8015) IPA 0=8021) (EPA 300.0) ANALYSIS REQUE
	ANALYSIS REQUE
	WWW.Xenco.com Program: UST/PST PRP Brow State of Project: Reporting:Level II Level II PST Deliverables: EDD ADaP ST

Page 35 of 37

Page 139 of 268

XENCO

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

Chain of Custody

Work Order No:

25 12335

Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Final 1.000

Page 140 of 268

X

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

Chain of Custody

Work Order No:

50 62

Page 36 of 37



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 03/19/2020 04:30:00 PM Temperature Measuring device used : T-NM-007 Work Order #: 656335 Sample Receipt Checklist #1 *Temperature of cooler(s)? 2.4 #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? Yes #5 Custody Seals intact on sample bottles? Yes #6*Custody Seals Signed and dated? Yes #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No

#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Checklist reviewed by: Jessica WAMER

Date: 03/19/2020

Comments

Jessica Kramer

Date: 03/20/2020



Analytical Report 658519

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 147

04.13.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

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



04.13.2020

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

Reference: XENCO Report No(s): 658519 PLU 147 Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 658519. 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. 658519 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 658519

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH04	S	04.08.2020 13:27	2 ft	658519-001
PH04A	S	04.08.2020 13:29	4 ft	658519-002




CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU 147

Project ID: Work Order Number(s): 658519
 Report Date:
 04.13.2020

 Date Received:
 04.09.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3122755 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Dan Moir



Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 658519

LT Environmental, Inc., Arvada, CO

Project Name: PLU 147

 Date Received in Lab:
 Thu 04.09.2020 16:13

 Report Date:
 04.13.2020 11:28

Project Manager: Jessica Kramer

	Lab Id:	658519-0	001	658519-0	02		
Analysis Requested	Field Id:	PH04		PH04A	A		
Analysis Kequestea	Depth:	2- ft		4- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	04.08.2020	13:27	04.08.2020	13:29		
BTEX by EPA 8021B	Extracted:	04.09.2020	16:49	04.09.2020	16:49		
	Analyzed:	04.10.2020	12:13	04.10.2020	12:33		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00200	0.00200	< 0.00200	0.00200		
Toluene			0.00200		0.00200		
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200		
m,p-Xylenes		< 0.00400	0.00400	< 0.00399	0.00399		
o-Xylene		0.0326	0.00200	< 0.00200	0.00200		
Total Xylenes			0.00200		0.00200		
Total BTEX		0.0326	0.00200	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	04.09.2020	16:19	04.09.2020	16:19		
	Analyzed:	04.09.2020	19:00	04.09.2020	19:17		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		19.3	9.94	437	9.92		
TPH by SW8015 Mod	Extracted:	04.09.2020	17:00	04.09.2020	17:00		
	Analyzed:	04.09.2020	19:13	04.09.2020	19:33		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.8	49.8		
Diesel Range Organics (DRO)		<49.8	49.8	<49.8	49.8		
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.8	49.8		
Total GRO-DRO		<49.8	49.8	<49.8	49.8		
Total TPH		<49.8	49.8	<49.8	49.8		

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

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

fession Vramer

Jessica Kramer Project Manager

Page 5 of 14



Certificate of Analytical Results 658519

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: PH04 Lab Sample Id: 658519-001		Matrix: Soil Date Collected: 04.08.2020 13:27				Date Received:04.09.2020 16:13 Sample Depth: 2 ft			
Analytical Method: Chloride by EF	PA 300					Prep Method: E30	OP		
Tech: MAB						% Moisture:			
Analyst: MAB		Date Pre	p: 04.09	.2020 16:19		Basis: Wet	Weight		
Seq Number: 3122585									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	19.3	9.94		mg/kg	04.09.2020 19:00		1	
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3122635	15 Mod	Date Pre	p: 04.09	.2020 17:00		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
	Cas Number PHC610	Result	RL 49.8		Units mg/kg	Analysis Date 04.09.2020 19:13	Flag U	Dil	
Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)						-	-		
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	04.09.2020 19:13	U	1	
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	PHC610 C10C28DRO	<49.8 <49.8	49.8 49.8		mg/kg mg/kg	04.09.2020 19:13 04.09.2020 19:13	U U U	1 1	
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835	<49.8 <49.8 <49.8	49.8 49.8 49.8		mg/kg mg/kg mg/kg	04.09.2020 19:13 04.09.2020 19:13 04.09.2020 19:13	U U U U	1 1 1	
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	<49.8 <49.8 <49.8 <49.8 <49.8 <49.8	49.8 49.8 49.8 49.8	Units	mg/kg mg/kg mg/kg mg/kg	04.09.2020 19:13 04.09.2020 19:13 04.09.2020 19:13 04.09.2020 19:13 04.09.2020 19:13	U U U U U	1 1 1 1	
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	<49.8 <49.8 <49.8 <49.8 <49.8 <49.8	49.8 49.8 49.8 49.8 49.8 49.8	Units %	mg/kg mg/kg mg/kg mg/kg	04.09.2020 19:13 04.09.2020 19:13 04.09.2020 19:13 04.09.2020 19:13 04.09.2020 19:13 04.09.2020 19:13 Analysis Date	U U U U U Flag	1 1 1 1	



Certificate of Analytical Results 658519

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: Lab Sample I	PH04 d: 658519-001		Matrix: Date Collected	Soil 1: 04.08.2020 13:27		Date Received:04.09.2020 16:13 Sample Depth: 2 ft				
5	ethod: BTEX by EPA 80	21B				Prep Method:	SW50)30B		
Tech:	MAB					% Moisture:				
Analyst:	MAB		Date Prep:	04.09.2020 16:49		Basis:	Wet V	Veight		
Seq Number:	3122755									
Parameter		Cas Number	Result RI		Units	Analysis Da	ate	Flag	Dil	

1 ar ameter	Cusitunio	i Result	NL		Omts	Analysis Date	Flag	Dii
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.10.2020 12:13	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.10.2020 12:13	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.10.2020 12:13	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	04.10.2020 12:13	U	1
o-Xylene	95-47-6	0.0326	0.00200		mg/kg	04.10.2020 12:13		1
Total Xylenes	1330-20-7	0.0326	0.00200		mg/kg	04.10.2020 12:13		1
Total BTEX		0.0326	0.00200		mg/kg	04.10.2020 12:13		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.10.2020 12:13		
4-Bromofluorobenzene		460-00-4	118	%	70-130	04.10.2020 12:13		



Certificate of Analytical Results 658519

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: PH04A Lab Sample Id: 658519-002		Matrix: Date Collec	Soil cted: 04.08.2020 13:29		Date Received:0 Sample Depth: 4		:13
Analytical Method: Chloride by EI	PA 300				Prep Method: E	E300P	
Tech: MAB					% Moisture:		
Analyst: MAB		Date Prep:	04.09.2020 16:19		Basis: V	Vet Weight	
Seq Number: 3122585							
Parameter	Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil
Chloride	16887-00-6	437	9.92	mg/kg	04.09.2020 19:1	7	1
Analytical Method: TPH by SW80	15 Mod				Prep Method: S	W8015P	
Tech: DTH	15 100				% Moisture:	W 00151	
Analyst: DTH		Data Prop.	04.09.2020 17:00			Vet Weight	
Seq Number: 3122635		Date Prep:	04.07.2020 17.00		Dasis. v	vet weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.09.2020 19:3	3 U	1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	PHC610 C10C28DRO	<49.8 <49.8	49.8 49.8	mg/kg mg/kg	04.09.2020 19:3 04.09.2020 19:3		1

Total GRO-DRO	PHC628	<49.	8 49.8		mg/kg	04.09.2020 19:33	U	1
Total TPH	PHC635	<49.	8 49.8		mg/kg	04.09.2020 19:33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	109	%	70-135	04.09.2020 19:33		
o-Terphenyl		84-15-1	116	%	70-135	04.09.2020 19:33		



Certificate of Analytical Results 658519

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id:	PH04A		Matrix:	Soil	Date Receive	Date Received:04.09.2020 16:13				
Lab Sample Io	d: 658519-002		Date Collected	1: 04.08.2020 13:29	Sample Depth: 4 ft					
Analytical Me	ethod: BTEX by EPA 802	21B			Prep Method:	SW5030B				
Tech:	MAB				% Moisture:					
Analyst:	MAB		Date Prep:	04.09.2020 16:49	Basis:	Wet Weight				
Seq Number:	3122755									
Danamatan		Cas Number	Docult DI	T.	:4- A	Ele-	D:1			

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.10.2020 12:33	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.10.2020 12:33	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.10.2020 12:33	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	04.10.2020 12:33	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.10.2020 12:33	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.10.2020 12:33	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.10.2020 12:33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	98	%	70-130	04.10.2020 12:33		
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.10.2020 12:33		



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

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



QC Summary 658519

LT Environmental, Inc. PLU 147

Analytical Method: Seq Number: MB Sample Id:	Chloride by 3122585 7701005-1-1)0		Matrix: nple Id:	Solid 7701005-1	1-BKS			rep Metho Date Pro D Sample	ep: 04.0	0P 09.2020 1005-1-BSD	
Parameter		MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
		Result	Amount	Result	%Rec	Result	%Rec	00.110	0	Limit		Date	8
Chloride		<10.0	250	256	102	256	102	90-110	0	20	mg/kg	04.09.2020 18:17	
Analytical Method:	Chloride by 3122585	y EPA 30	00		Matrix:	Soil			P	rep Metho			
Seq Number: Parent Sample Id:	658518-001					658518-00	01 S		MS	Date Pro D Sample	•)9.2020 518-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		235	200	444	105	444	105	90-110	0	20	mg/kg	04.09.2020 18:33	
Analytical Method:	-	y EPA 30)0						P	rep Metho			
Seq Number:	3122585				Matrix:	Soil 658520-00	15 5		MS	Date Pro	-)9.2020 520-005 SD	
Parent Sample Id:	658520-005		C	MS Sal				T :: ta	%RPD	RPD Sample	Units		
Parameter		Parent Result	Spike Amount	Result	MS %Rec	MSD Result	MSD %Rec	Limits	%KPD	Limit	Units	Analysis Date	Flag
Chloride		367	401	776	102	774	102	90-110	0	20	mg/kg	04.09.2020 19:50	
Analytical Method:	TPH by SW	V8015 M	od						P	rep Metho	od: SW	8015P	
Seq Number:	3122635	0010 11	.ou		Matrix:	Solid				Date Pre		9.2020	
MB Sample Id:	7700958-1-1	BLK		LCS Sar	nple Id:	7700958-	1-BKS		LCS	D Sample	e Id: 770	0958-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb		< 50.0	1000	877	88	971	97	70-135	10	35	mg/kg	04.09.2020 13:25	
Diesel Range Organics	(DRO)	<50.0	1000	952	95	1070	107	70-135	12	35	mg/kg	04.09.2020 13:25	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		104		1	26		119)	70	-135	%	04.09.2020 13:25	
o-Terphenyl		113		1	12		122	2	70	-135	%	04.09.2020 13:25	
Analytical Method:	TPH by SW	V8015 M	od						P	rep Metho	od: SW	8015P	
Seq Number:	3122635				Matrix:					Date Pre	ep: 04.0	9.2020	
					nple Id:	7700958-	I-BLK						
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	04.09.2020 13:04	

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

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

.

Page 11 of 14

```
Final 1.000
```



QC Summary 658519

LT Environmental, Inc.

PLU 147

Analytical Method:TPH bySeq Number:3122635Parent Sample Id:658383-		Matrix: nple Id:	Soil 658383-00)6 S			rep Metho Date Pr D Samplo	ep: 04.0	8015P)9.2020 383-006 SD			
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)	<50.0	999	1010	101	1020	102	70-135	1	35	mg/kg	04.09.2020 14:26	
Diesel Range Organics (DRO)	<50.0	999	1100	110	1130	113	70-135	3	35	mg/kg	04.09.2020 14:26	
Surrogate				IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1-Chlorooctane			12	27		126		70	-135	%	04.09.2020 14:26	
o-Terphenyl			12	28		129		70	-135	%	04.09.2020 14:26	

Analytical Method:	BTEX by EPA 8021	B					Pi	rep Metho	od: SW	5030B		
Seq Number:	3122755]	Matrix:	Solid				Date Pr	ep: 04.0	9.2020	
MB Sample Id:	7700968-1-BLK		LCS San	nple Id:	7700968-	I-BKS		LCS	D Sample	e Id: 770	0968-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.104	104	0.107	107	70-130	3	35	mg/kg	04.10.2020 08:49	
Toluene	< 0.00200	0.100	0.0983	98	0.101	101	70-130	3	35	mg/kg	04.10.2020 08:49	
Ethylbenzene	< 0.00200	0.100	0.0921	92	0.0943	94	71-129	2	35	mg/kg	04.10.2020 08:49	
m,p-Xylenes	< 0.00400	0.200	0.189	95	0.194	97	70-135	3	35	mg/kg	04.10.2020 08:49	
o-Xylene	< 0.00200	0.100	0.0965	97	0.0990	99	71-133	3	35	mg/kg	04.10.2020 08:49	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene	107		1	05		104		70	-130	%	04.10.2020 08:49	
4-Bromofluorobenzene	94		9	3		93		70	-130	%	04.10.2020 08:49	

Analytical Method: Seq Number: Parent Sample Id:	q Number: 3122755 rent Sample Id: 658383-004			Matrix: nple Id:	Soil 658383-00		Prep Method: SW5030B Date Prep: 04.09.2020 MSD Sample Id: 658383-004 SD					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.0834	83	0.0890	89	70-130	6	35	mg/kg	04.10.2020 09:30	
Toluene	< 0.00201	0.100	0.0766	77	0.0811	81	70-130	6	35	mg/kg	04.10.2020 09:30	
Ethylbenzene	< 0.00201	0.100	0.0740	74	0.0780	78	71-129	5	35	mg/kg	04.10.2020 09:30	
m,p-Xylenes	< 0.00402	0.201	0.155	77	0.164	82	70-135	6	35	mg/kg	04.10.2020 09:30	
o-Xylene	< 0.00201	0.100	0.0788	79	0.0837	84	71-133	6	35	mg/kg	04.10.2020 09:30	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	05		105		70)-130	%	04.10.2020 09:30	
4-Bromofluorobenzene			9	95		94		70)-130	%	04.10.2020 09:30	

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

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

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

.

Page 12 of 14

	Ell map			1/2023 I otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	11					/	/	рноча	PHOM	Sample Identification	emilie contral ocale.	Sample Cristody Seals:	Cooler Custody Soole:	Dessived latest:		SAMPI E DECEIDT	Sampler's Name: Robe	P.O. Number:	Project Number:	Project Name:	Phone: (432)	City, State ZIP: Midland,	Address: 3300	Company Name: LT E	Project Manager: Dan	
	0	ature)	y for the cost of samples 75.00 will be applied to ea	200.8 / 6020: Metal(s) to be anal								S	S	ion Matrix	TAN IN SOL	-	O N	Ĉ	Blank:		Robert McAfee	NRM 200444585		the old	(432) 701-2610	and, TX 79705	3300 North A St. Bldg 1, Unit 222	LT Environmental, Inc.,	Dan Moir	KENCO
(lll	Received by: (Signature)	and shall not assume any ch project and a charge of	8RCRA 1 lyzed TCLP / S	11			/			-	04/08/20 1329	04/08/20 1327	Date Time Sampled Sampled		Total Containant	J-NN	Thermometer ID	Tes No Wet Ice:			q	T		Е		, Unit 222	Permian office		Ho N Hobbs,NM (57
		ature)	responsibility for any los: \$5 for each sample subm	ACRA 13PPM Texas 11 A			-					· 4	21	Depth	Ir	1 01	tot.	5	(es) No)	Due Date:	Rush: 3 day	Routine	Turn Around	Email: dmoir@ltenv.c	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	uston,TX (281) 240-420 hidland,TX (432-704-544 5-392-7550) Phoenix,A2
	419/2010:13	Date/Time	it company to Xenco, its a ses or expenses incurred itted to Xenco, but not an	Al Sb As Ba Be A Sb As Ba Be (A	A A	l			× × ×	-	Numb TPH (E BTEX (I Chlorid	PA 8	8015) 1)		rs						com rmcafee@ltenv.com	Carlsbad, NM	3104 E Greene	3: XTO Energy	Kyle Littrell	Chain of Custody ⁰ Dallas,TX (214) 902-0300 San Antonio,T ⁰ EL Paso,TX (915)585-3443 Lubbock,T. <u>2 (480-355-0900) Atlanta,GA (770-449-880</u>
0 4	2	Relinguished by: (Signature)	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 contro Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	B Cd Ca Cr Co Cu Fe Pb Cd Cr Co Cu Pb Mn Mo N			1																	ANALYSIS REQUEST	.com		St.			Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
		ure) Received hv: (Signature)	Itractors. It assigns standard terms and conditions losses are due to circumstances beyond the control will be enforced unless previously negotiated.	Ag SiO2																					Deliverables: EDD ADaPT	Reporting:Level II Devel III PST/UST	NM	Program: UST/PST DRP Rrownfields	Work Order Comments	Work Order No: _ 4 (3-620-2000) www.xenco.com
		Data/Timo		Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg							(LISCETE	disate	dicionta	Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the								X	Othe	JST RRP Byel IV		1	omments	9: (1555)19 Page 1 of 1

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 04.09.2020 04.13.00 PM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 658519	Temperature Measuring device used : T-NM-007
Sample Recei	pt Checklist Comments
#1 *Temperature of cooler(s)?	1.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan
Checklist reviewed by: Jessica Warmer

Date: 04.09.2020

Jessica Kramer

Date: 04.10.2020



Analytical Report 658520

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 147

04.13.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

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



04.13.2020

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

Reference: XENCO Report No(s): 658520 PLU 147 Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 658520. 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. 658520 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 658520

PLU 147

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS03A	S	04.08.2020 12:30	7.5 ft	658520-001
SW05	S	04.08.2020 11:30	0 - 7 ft	658520-002
FS05	S	04.09.2020 13:53	3 ft	658520-003
SW06	S	04.09.2020 13:57	0 - 3 ft	658520-004
SW07	S	04.09.2020 13:51	0 - 3 ft	658520-005





CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: PLU 147

Project ID: Work Order Number(s): 658520
 Report Date:
 04.13.2020

 Date Received:
 04.09.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3122755 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Dan Moir



Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 658520

LT Environmental, Inc., Arvada, CO

Project Name: PLU 147

 Date Received in Lab:
 Thu 04.09.2020 16:13

 Report Date:
 04.13.2020 11:29

Project Manager: Jessica Kramer

	Lab Id:	658520-0	001	658520-0	02	658520-0	03	658520-0	04	658520-00	05	
Analysis Requested	Field Id:	FS03A	4	SW05		FS05		SW06		SW07		
Analysis Kequestea	Depth:	7.5- ft	:	0-7 ft		3- ft		0-3 ft		0-3 ft		
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL		
	Sampled:	04.08.2020	12:30	04.08.2020	11:30	04.09.2020	13:53	04.09.2020	13:57	04.09.2020	13:51	
BTEX by EPA 8021B	Extracted:	04.09.2020	16:49	04.09.2020	16:49	04.09.2020	16:49	04.09.2020	16:49	04.09.2020	16:49	
	Analyzed:	04.10.2020	12:54	04.10.2020	13:14	04.10.2020	18:46	04.10.2020	19:07	04.10.2020	19:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.0278	0.0278	< 0.0278	0.0278	< 0.0278	0.0278	
Toluene		< 0.00200	0.00200	< 0.00201	0.00201	3.25	0.111	1.25	0.111	1.30	0.111	
Ethylbenzene		< 0.00200	0.00200	< 0.00201	0.00201	2.54	0.111	1.25	0.111	1.49	0.111	
m,p-Xylenes		< 0.00399	0.00399	< 0.00402	0.00402	37.6	0.222	18.3	0.222	20.6	0.222	
o-Xylene		< 0.00200	0.00200	< 0.00201	0.00201	18.4	0.111	7.21	0.111	7.53	0.111	
Total Xylenes		< 0.00200	0.00200	< 0.00201	0.00201	56.0	0.111	25.5	0.111	28.1	0.111	
Total BTEX		< 0.00200	0.00200	< 0.00201	0.00201	61.8	0.0278	28.0	0.0278	30.9	0.0278	
Chloride by EPA 300	Extracted:	04.09.2020	16:19	04.09.2020	16:19	04.09.2020	16:19	04.09.2020	16:19	04.09.2020	16:19	
	Analyzed:	04.09.2020	19:22	04.09.2020	19:28	04.09.2020	19:33	04.09.2020	19:39	04.09.2020	19:44	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		412	9.98	39.6	9.94	605	9.92	313	9.98	367	10.1	
TPH by SW8015 Mod	Extracted:	04.09.2020	17:00	04.09.2020	17:00	04.09.2020	17:00	04.09.2020	17:00	04.09.2020	17:00	
	Analyzed:	04.09.2020	19:54	04.09.2020	20:14	04.09.2020	20:34	04.09.2020	20:55	04.10.2020	10:57	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.2	50.2	1590	50.3	949	49.9	2050	251	
Diesel Range Organics (DRO)		231	50.0	<50.2	50.2	4750	50.3	4540	49.9	8820	251	
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.2	50.2	192	50.3	227	49.9	416	251	
Total GRO-DRO		231	50.0	<50.2	50.2	6340	50.3	5490	49.9	10900	251	
Total TPH		231	50.0	<50.2	50.2	6530	50.3	5720	49.9	11300	251	

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

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

fession Vermer

Jessica Kramer Project Manager

Page 5 of 20



Certificate of Analytical Results 658520

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: FS03A Lab Sample Id: 658520-001		Matrix: Date Collec	Soil cted: 04.08.2020 12:30		Date Received:04.09.2020 16:13 Sample Depth: 7.5 ft				
Analytical Method: Chloride by El Tech: MAB	PA 300				Prep Method: E30 % Moisture:)0P			
Analyst: MAB		Date Prep:	04.09.2020 16:19		Basis: We	t Weight			
Seq Number: 3122585		Duterrep				8			
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	412	9.98	mg/kg	04.09.2020 19:22		1		
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3122635	15 MOO	Date Prep:	04.09.2020 17:00		Prep Method: SW % Moisture: Basis: We	t Weight			
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag			
						0	Dil		
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.09.2020 19:54	U	Dil		
6.	PHC610 C10C28DRO	<50.0 231	50.0 50.0	mg/kg mg/kg	04.09.2020 19:54 04.09.2020 19:54	U			
Diesel Range Organics (DRO)						U U			
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	C10C28DRO	231	50.0	mg/kg	04.09.2020 19:54		1		

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-135	04.09.2020 19:54	
o-Terphenyl	84-15-1	133	%	70-135	04.09.2020 19:54	

Certificate of Analytical Results 658520

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: Lab Sample I	FS03A d: 658520-001		Matrix: Date Collected	Soil 1: 04.08.2020 12:30		Date Received Sample Depth			13
Analytical Me	ethod: BTEX by EPA 802	21B				Prep Method:	SW50)30B	
Tech:	MAB					% Moisture:			
Analyst:	MAB		Date Prep:	04.09.2020 16:49		Basis:	Wet V	Veight	
Seq Number:	3122755								
Parameter		Cas Number	Result RL		Units	Analysis Da	ate	Flag	Dil

Parameter	Cas Numbe	r Kesult	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.10.2020 12:54	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.10.2020 12:54	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.10.2020 12:54	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	04.10.2020 12:54	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.10.2020 12:54	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.10.2020 12:54	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.10.2020 12:54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	04.10.2020 12:54		
4-Bromofluorobenzene		460-00-4	94	%	70-130	04.10.2020 12:54		



Certificate of Analytical Results 658520

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: SW05 Lab Sample Id: 658520-002	Matrix: Date C	Soil ollected: 04.08	8.2020 11:30		Date Received:04.09.2020 16:13 Sample Depth: 0 - 7 ft				
Analytical Method: Chloride by EP Tech: MAB	A 300					Prep Method: E300 % Moisture:	P		
Analyst: MAB		Date Pr	ep: 04.09	9.2020 16:19		Basis: Wet	Weight		
Seq Number: 3122585									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	39.6	9.94		mg/kg	04.09.2020 19:28		1	
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3122635	15 Mod	Date Pr	ep: 04.09	9.2020 17:00		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight		
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	04.09.2020 20:14	U	1	
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	04.09.2020 20:14	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	04.09.2020 20:14	U	1	
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	04.09.2020 20:14	U	1	
Total TPH	PHC635	<50.2	50.2		mg/kg	04.09.2020 20:14	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag		
1-Chlorooctane		111-85-3	116	%	70-135	04.09.2020 20:14			
o-Terphenyl		84-15-1	124	%	70-135	04.09.2020 20:14			

Certificate of Analytical Results 658520

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: SW05 Lab Sample Id: 658520-002		Matrix: Date Collecte	Soil d: 04.08.2020 11:30	Date Receive Sample Dept	ed:04.09.2020 16 h: 0 - 7 ft	5:13
Analytical Method: BTEX by E Tech: MAB	PA 8021B			Prep Method % Moisture:	: SW5030B	
Analyst: MAB		Date Prep:	04.09.2020 16:49	Basis:	Wet Weight	
Seq Number: 3122755						
Parameter	Cas Number	Result RI	u U	nits Analysis l	Date Flag	Dil

r al alletel	Cas Numbe	i Kesun	KL		Units	Analysis Date	Flag	Dii
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.10.2020 13:14	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.10.2020 13:14	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.10.2020 13:14	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.10.2020 13:14	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.10.2020 13:14	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	04.10.2020 13:14	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.10.2020 13:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	04.10.2020 13:14		
4-Bromofluorobenzene		460-00-4	101	%	70-130	04.10.2020 13:14		



Certificate of Analytical Results 658520

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: FS05 Lab Sample Id: 658520-003		Matrix Date C	: Soil ollected: 04.09	9.2020 13:53		Date Received:04.09.2020 16:13 Sample Depth: 3 ft				
Analytical Method: Chloride by EPA	A 300					Prep Method: E300	P			
Tech: MAB						% Moisture:				
Analyst: MAB		Date Pr	rep: 04.09	9.2020 16:19		Basis: Wet	Weight			
Seq Number: 3122585										
Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	605	9.92		mg/kg	04.09.2020 19:33		1		
Analytical Method: TPH by SW801. Tech: DTH Analyst: DTH Seq Number: 3122635	5 Mod	Date Pr	rep: 04.09	9.2020 17:00		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight			
Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil		
Gasoline Range Hydrocarbons (GRO)	PHC610	1590	50.3		mg/kg	04.09.2020 20:34		1		
Diesel Range Organics (DRO)	C10C28DRO	4750	50.3		mg/kg	04.09.2020 20:34		1		
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	192	50.3		mg/kg	04.09.2020 20:34		1		
Total GRO-DRO	PHC628	6340	50.3		mg/kg	04.09.2020 20:34		1		
Total TPH	PHC635	6530	50.3		mg/kg	04.09.2020 20:34		1		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag			
1-Chlorooctane		111-85-3	130	%	70-135	04.09.2020 20:34	_			
o-Terphenyl		84-15-1	125	%	70-135	04.09.2020 20:34				



Certificate of Analytical Results 658520

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: Lab Sample Id	Sample Id: FS05 Lab Sample Id: 658520-003			Soil l: 04.09.2020 13:53	Date Received:04.09.2020 16:13 Sample Depth: 3 ft				
2	ethod: BTEX by EPA 802	21B			Prep Method:	SW5030B			
Tech:	MAB				% Moisture:				
Analyst:	MAB		Date Prep:	04.09.2020 16:49	Basis:	Wet Weight			
Seq Number:	3122755								
Paramotor		Cas Number	Result DI		Unita Analysia D	ete Flog	Ъ		

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0278	3 0.0278		mg/kg	04.10.2020 18:46	U	1
Toluene	108-88-3	3.25	0.111		mg/kg	04.10.2020 18:46		1
Ethylbenzene	100-41-4	2.54	0.111		mg/kg	04.10.2020 18:46		1
m,p-Xylenes	179601-23-1	37.6	0.222		mg/kg	04.10.2020 18:46		1
o-Xylene	95-47-6	18.4	0.111		mg/kg	04.10.2020 18:46		1
Total Xylenes	1330-20-7	56.0	0.111		mg/kg	04.10.2020 18:46		1
Total BTEX		61.8	0.0278		mg/kg	04.10.2020 18:46		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	89	%	70-130	04.10.2020 18:46		
4-Bromofluorobenzene		460-00-4	123	%	70-130	04.10.2020 18:46		



Certificate of Analytical Results 658520

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id:SW06Lab Sample Id:658520-004		Matrix Date C	Soil Soil	9.2020 13:57		Date Received:04.09 Sample Depth: 0 - 3		13
Analytical Method: Chloride by EPA	A 300					Prep Method: E300)P	
Tech: MAB						% Moisture:		
Analyst: MAB		Date Pr	ep: 04.09	0.2020 16:19		Basis: Wet	Weight	
Seq Number: 3122585								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	313	9.98		mg/kg	04.09.2020 19:39		1
Analytical Method: TPH by SW801: Tech: DTH	5 Mod					Prep Method: SW8	015P	
Analyst: DTH Seq Number: 3122635		Date Pr	rep: 04.09	9.2020 17:00		% Moisture: Basis: Wet	Weight	
Analyst: DTH	Cas Number		rep: 04.09 RL	9.2020 17:00	Units		Weight Flag	Dil
Analyst: DTH Seq Number: 3122635	Cas Number PHC610			0.2020 17:00	Units mg/kg	Basis: Wet	U	Dil
Analyst: DTH Seq Number: 3122635 Parameter		Result	RL	0.2020 17:00		Basis: Wet Analysis Date	U	
Analyst: DTH Seq Number: 3122635 Parameter Gasoline Range Hydrocarbons (GRO)	PHC610	Result	RL 49.9	9.2020 17:00	mg/kg	Basis: Wet Analysis Date 04.09.2020 20:55	U	1
Analyst: DTH Seq Number: 3122635 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	PHC610 C10C28DRO	• Result 949 4540	RL 49.9 49.9	0.2020 17:00	mg/kg mg/kg	Basis: Wet Analysis Date 04.09.2020 20:55 04.09.2020 20:55	U	1
Analyst: DTH Seq Number: 3122635 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835	• Result 949 4540 227	RL 49.9 49.9 49.9	9.2020 17:00	mg/kg mg/kg mg/kg	Basis: Wet Analysis Date 04.09.2020 20:55 04.09.2020 20:55 04.09.2020 20:55	U	1 1 1
Analyst: DTH Seq Number: 3122635 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 949 4540 227 5490	RL 49.9 49.9 49.9 49.9 49.9	0.2020 17:00	mg/kg mg/kg mg/kg mg/kg	Basis: Wet Analysis Date 04.09.2020 20:55 04.09.2020 20:55 04.09.2020 20:55 04.09.2020 20:55 04.09.2020 20:55 04.09.2020 20:55	U	1 1 1 1
Analyst: DTH Seq Number: 3122635 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	• Result 949 4540 227 5490 5720	RL 49.9 49.9 49.9 49.9 49.9 49.9		mg/kg mg/kg mg/kg mg/kg mg/kg	Basis: Wet Analysis Date 04.09.2020 20:55 04.09.2020 20:55 04.09.2020 04.09.2020 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.002 05.	Flag	1 1 1 1



Certificate of Analytical Results 658520

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: Lab Sample I	SW06 d: 658520-004		Matrix: Date Collected	Soil 1: 04.09.2020 13:57	Date Received:04.09.2020 16: Sample Depth: 0 - 3 ft				
	ethod: BTEX by EPA 80 MAB	021B			Prep Methoo % Moisture:	: SW5030B			
Tech: Analyst:	MAB		Date Prep:	04.09.2020 16:49	Basis:	Wet Weight			
Seq Number: Parameter	3122755	Cas Number	Result RI		Inite Analysis	Data Flag	Dil		

Parameter	Cas Numbe	r Kesult	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0278	0.0278		mg/kg	04.10.2020 19:07	U	1
Toluene	108-88-3	1.25	0.111		mg/kg	04.10.2020 19:07		1
Ethylbenzene	100-41-4	1.25	0.111		mg/kg	04.10.2020 19:07		1
m,p-Xylenes	179601-23-1	18.3	0.222		mg/kg	04.10.2020 19:07		1
o-Xylene	95-47-6	7.21	0.111		mg/kg	04.10.2020 19:07		1
Total Xylenes	1330-20-7	25.5	0.111		mg/kg	04.10.2020 19:07		1
Total BTEX		28.0	0.0278		mg/kg	04.10.2020 19:07		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	98	%	70-130	04.10.2020 19:07		
4-Bromofluorobenzene		460-00-4	123	%	70-130	04.10.2020 19:07		



Certificate of Analytical Results 658520

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: SW07 Lab Sample Id: 658520-005		Matrix: Date Col	Soil llected: 04.09	.2020 13:51		Date Received:04.09.2020 16:13 Sample Depth: 0 - 3 ft			
Analytical Method: Chloride by EPA	A 300					Prep Method: E300)P		
Tech: MAB						% Moisture:			
Analyst: MAB		Date Pre	p: 04.09	.2020 16:19		Basis: Wet	Weight		
Seq Number: 3122585			•						
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	367	10.1		mg/kg	04.09.2020 19:44		1	
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3122635	5 Mod	Date Pre	p: 04.09	.2020 17:00		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight		
Tech: DTH Analyst: DTH	5 Mod Cas Number	Date Pre Result	p: 04.09 RL	.2020 17:00	Units	% Moisture:		Dil	
Tech: DTH Analyst: DTH Seq Number: 3122635 Parameter			F.	.2020 17:00		% Moisture: Basis: Wet	Weight	Dil 5	
Tech: DTH Analyst: DTH Seq Number: 3122635	Cas Number	Result	RL	.2020 17:00	Units	% Moisture: Basis: Wet Analysis Date	Weight		
Tech: DTH Analyst: DTH Seq Number: 3122635 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result 2050	RL 251	.2020 17:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 04.10.2020 10:57	Weight	5	
Tech: DTH Analyst: DTH Seq Number: 3122635 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 2050 8820	RL 251 251	.2020 17:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 04.10.2020 10:57 04.10.2020 10:57	Weight	5 5	
Tech: DTH Analyst: DTH Seq Number: 3122635 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result 2050 8820 416	RL 251 251 251	.2020 17:00	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 04.10.2020 10:57 04.10.2020 10:57 04.10.2020 10:57	Weight	5 5 5	
Tech: DTH Analyst: DTH Seq Number: 3122635 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 2050 8820 416 10900 11300	RL 251 251 251 251 251	.2020 17:00 Units	Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 04.10.2020 10:57 04.10.2020 10:57 04.10.2020 10:57 04.10.2020 10:57 04.10.2020 10:57	Weight	5 5 5 5	
Tech: DTH Analyst: DTH Seq Number: 3122635 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 2050 8820 416 10900 11300	RL 251 251 251 251 251 251		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 04.10.2020 10:57 04.10.2020 10:57 04.10.2020 10:57 04.10.2020 10:57 04.10.2020 10:57 04.10.2020 10:57 04.10.2020 10:57 04.10.2020 10:57 04.10.2020 10:57 04.10.2020 10:57 04.10.2020 10:57	Weight Flag	5 5 5 5	



Certificate of Analytical Results 658520

LT Environmental, Inc., Arvada, CO

PLU 147

Sample Id: S Lab Sample Id: 6	58520-005		Matrix: Date Collected	Soil : 04.09.2020 13:51	Date Received:04.09.2020 16:13 Sample Depth: 0 - 3 ft				
2	d: BTEX by EPA 8021 IAB	В			Prep Method: % Moisture:	SW5030B			
	IAB		Date Prep:	04.09.2020 16:49	Basis:	Wet Weight			
Parameter		Cas Number	Rosult DI	T	nita Analysia D		Dil		

Benzene 71-43-2 <0.0278	Parameter	Cas Numbe	r Kesult	RL		Units	Analysis Date	Flag	Dil
Ethylbenzene 100-41-4 1.49 0.111 mg/kg 04.10.2020 19:27 m,p-Xylenes 179601-23-1 20.6 0.222 ng/kg 04.10.2020 19:27 o-Xylene 95-47-6 7.53 0.111 mg/kg 04.10.2020 19:27 Total Xylenes 1330-20-7 28.1 0.111 ng/kg 04.10.2020 19:27 Total BTEX 30.9 0.0278 mg/kg 04.10.2020 19:27 Surrogate Cas Number % Recovery Units Limits Analysis Date Flag 1,4-Difluorobenzene 540-36-3 99 % 70-130 04.10.2020 19:27	Benzene	71-43-2	< 0.0278	3 0.0278		mg/kg	04.10.2020 19:27	U	1
m.p-Xylenes 179601-23-1 20.6 0.222 mg/kg 04.10.2020 19:27 o-Xylene 95-47-6 7.53 0.111 mg/kg 04.10.2020 19:27 Total Xylenes 1330-20-7 28.1 0.111 mg/kg 04.10.2020 19:27 Total BTEX 30.9 0.0278 mg/kg 04.10.2020 19:27 Surrogate Cas Number % Recovery Units Limits Analysis Date Flag 1,4-Difluorobenzene 540-36-3 99 % 70-130 04.10.2020 19:27	Toluene	108-88-3	1.30	0.111		mg/kg	04.10.2020 19:27		1
o-Xylene 95-47-6 7.53 0.111 mg/kg 04.10.2020 19:27 Total Xylenes 1330-20-7 28.1 0.111 mg/kg 04.10.2020 19:27 Total BTEX 30.9 0.0278 mg/kg 04.10.2020 19:27 Surrogate Cas Number % Recovery Units Limits Analysis Date Flag 1,4-Difluorobenzene 540-36-3 99 % 70-130 04.10.2020 19:27	Ethylbenzene	100-41-4	1.49	0.111		mg/kg	04.10.2020 19:27		1
Total Xylenes 1330-20-7 28.1 0.111 mg/kg 04.10.2020 19:27 Total BTEX 30.9 0.0278 mg/kg 04.10.2020 19:27 Surrogate Cas Number % Recovery Units Limits Analysis Date Flag 1,4-Difluorobenzene 540-36-3 99 % 70-130 04.10.2020 19:27	m,p-Xylenes	179601-23-1	20.6	0.222		mg/kg	04.10.2020 19:27		1
Total BTEX 30.9 0.0278 mg/kg 04.10.2020 19:27 Surrogate Cas Number % Recovery Units Limits Analysis Date Flag 1,4-Difluorobenzene 540-36-3 99 % 70-130 04.10.2020 19:27	o-Xylene	95-47-6	7.53	0.111		mg/kg	04.10.2020 19:27		1
SurrogateCas Number% RecoveryUnitsLimitsAnalysis DateFlag1,4-Difluorobenzene540-36-399%70-13004.10.2020 19:27	Total Xylenes	1330-20-7	28.1	0.111		mg/kg	04.10.2020 19:27		1
1,4-Difluorobenzene 540-36-3 99 % 70-130 04.10.2020 19:27	Total BTEX		30.9	0.0278		mg/kg	04.10.2020 19:27		1
	Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene 460-00-4 109 % 70-130 04.10.2020 19:27	1,4-Difluorobenzene		540-36-3	99	%	70-130	04.10.2020 19:27		
	4-Bromofluorobenzene		460-00-4	109	%	70-130	04.10.2020 19:27		



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

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



QC Summary 658520

LT Environmental, Inc. PLU 147

Analytical Method: Seq Number: MB Sample Id:	Chloride by E 3122585 7701005-1-BL		0		Matrix: nple Id:	Solid 7701005-1	I-BKS			rep Metho Date Pro D Sample	ep: 04.0	0P 09.2020 1005-1-BSD	
Parameter	_	MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
		esult	Amount	Result	%Rec	Result	%Rec	00 110	0	Limit		Date 04.09.2020 18:17	
Chloride	<	<10.0	250	256	102	256	102	90-110	0	20	mg/kg	04.09.2020 18:17	
Analytical Method: Seq Number:	Chloride by E 3122585	CPA 30	0		Matrix:	Soil			Pı	rep Metho Date Pro		0P)9.2020	
Parent Sample Id:	658518-001					658518-00	01 S		MS			518-001 SD	
Parameter		arent lesult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		235	200	444	105	444	105	90-110	0	20	mg/kg	04.09.2020 18:33	
A	Chine in the P	DA 20	0						~		od: E30	ΩD	
Analytical Method: Seq Number:	3122585	PA 30	U		Matrix:	Soil			PI	rep Metho Date Pro)9.2020	
Parent Sample Id:	658520-005					658520-00)5 S		MS		-	520-005 SD	
Parameter		arent lesult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		367	401	776	102	774	102	90-110	0	20	mg/kg	04.09.2020 19:50	
Analytical Method: Seq Number: MB Sample Id:	TPH by SW80 3122635 7700958-1-BL		od		Matrix: nple Id:	Solid 7700958-1	I-BKS			rep Metho Date Pro D Sample	ep: 04.0	8015P)9.2020 0958-1-BSD	
Parameter	R	MB Cesult	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	1000	877	88	971	97	70-135	10	35	mg/kg	04.09.2020 13:25	
Diesel Range Organics	(DRO) <	<50.0	1000	952	95	1070	107	70-135	12	35	mg/kg	04.09.2020 13:25	
Surrogate	c	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		104			26		119			-135	%	04.09.2020 13:25	
o-Terphenyl		113		1	12		122		70	-135	%	04.09.2020 13:25	
Analytical Method: Seq Number:	TPH by SW80 3122635	015 M	od		Matrix: nple Id:	Solid 7700958-1	-BLK		Pi	rep Metho Date Pro		8015P 09.2020	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocard	bons (MRO)			<50.0							mg/kg	04.09.2020 13:04	
											2 0		

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

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

.

Page 17 of 20



QC Summary 658520

LT Environmental, Inc.

PLU 147

Analytical Method:TPH bySeq Number:3122635Parent Sample Id:658383-		Matrix: nple Id:	Soil 658383-00)6 S			rep Metho Date Pr D Samplo	ep: 04.0	8015P)9.2020 383-006 SD			
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)	<50.0	999	1010	101	1020	102	70-135	1	35	mg/kg	04.09.2020 14:26	
Diesel Range Organics (DRO)	<50.0	999	1100	110	1130	113	70-135	3	35	mg/kg	04.09.2020 14:26	
Surrogate				IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1-Chlorooctane			12	27		126		70	-135	%	04.09.2020 14:26	
o-Terphenyl			12	28		129		70	-135	%	04.09.2020 14:26	

Analytical Method:	BTEX by EPA 8021	B						P	rep Metho	od: SW	5030B				
Seq Number:	3122755]	Matrix:	Solid			Date Prep: 04.09.2020							
MB Sample Id:	7700968-1-BLK		LCS San	nple Id:	7700968-	I-BKS		LCSD Sample Id: 7700968-1-BSD							
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag			
Benzene	< 0.00200	0.100	0.104	104	0.107	107	70-130	3	35	mg/kg	04.10.2020 08:49				
Toluene	< 0.00200	0.100	0.0983	98	0.101	101	70-130	3	35	mg/kg	04.10.2020 08:49				
Ethylbenzene	< 0.00200	0.100	0.0921	92	0.0943	94	71-129	2	35	mg/kg	04.10.2020 08:49				
m,p-Xylenes	< 0.00400	0.200	0.189	95	0.194	97	70-135	3	35	mg/kg	04.10.2020 08:49				
o-Xylene	< 0.00200	0.100	0.0965	97	0.0990	99	71-133	3	35	mg/kg	04.10.2020 08:49				
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSE %Rec			imits	Units	Analysis Date				
1,4-Difluorobenzene	107		1	05		104		70	-130	%	04.10.2020 08:49				
4-Bromofluorobenzene	94		9	3		93		70	-130	%	04.10.2020 08:49				

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 8021 3122755 658383-004	B		Matrix: nple Id:	Soil 658383-00)4 S			Prep Method: SW5030B Date Prep: 04.09.2020 MSD Sample Id: 658383-004 SD				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Benzene	< 0.00201	0.100	0.0834	83	0.0890	89	70-130	6	35	mg/kg	04.10.2020 09:30		
Toluene	< 0.00201	0.100	0.0766	77	0.0811	81	70-130	6	35	mg/kg	04.10.2020 09:30		
Ethylbenzene	< 0.00201	0.100	0.0740	74	0.0780	78	71-129	5	35	mg/kg	04.10.2020 09:30		
m,p-Xylenes	< 0.00402	0.201	0.155	77	0.164	82	70-135	6	35	mg/kg	04.10.2020 09:30		
o-Xylene	< 0.00201	0.100	0.0788	79	0.0837	84	71-133	6	35	mg/kg	04.10.2020 09:30		
Surrogate			MS %Rec		MS Flag	MSD %Re			imits	Units	Analysis Date		
1,4-Difluorobenzene			1	05		105		70)-130	%	04.10.2020 09:30		
4-Bromofluorobenzene			9	95		94		70)-130	%	04.10.2020 09:30		

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

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

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

.

Page 18 of 20

N	File may			V/2023 Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed vice: Signature of this document and relinquishment of samples	11				1	E UMS	Cuint	FSOS	Soms	F503A	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: Rob	P.O. Number:	Project Number:	Project Name:	Phone: (432	City, State ZIP: Midl	Address: 330	Company Name: LT E	Project Manager: Dar	
	CC	nature)	nly for the cost of sample	200.8 / 6020: d Metal(s) to be an					ą	F				S	tion Matrix	Yes No N/A	80	(es No	h.l.	Temp Blank:	Robert McAfee	NKM 2004	S	PLU 147	(432) 701-2610	Midland, TX 79705	3300 North A St. Bldg 1, Unit 222	LT Environmental, Inc.,	Dan Moir	(ENCO
	200	Received by: (S	s and shall not assume ach project and a char	alyzed TCLP					C1 &	A	10440		QZ11 02/80/HD	04/08/20 1230	Date 1 Sampled Sa	Total Containers:	Correction Factor:	1,	Them	Yes No		2004445859			_		1, Unit 222	, Permian office		Hobbs, NN
	e	(Signature)	ge of \$5 for each sample	RCRA 13PPM Texas 11 A		(/		0-3	7.0-	> 0	C C	>	30 7.5'	Time Depth Sampled	Itainers: 7	Factor: - 0.2	K M DOA	Thermometer ID	Wet Ice: Kes No	Due Date:	Rush: 3 day	Routine	Turn Around	Email: dmoir@lte	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Houston,TX (281) 24 Midland,TX (432-70 (575-392-7550) Phoe
	4/9/20 10:13	Date/Time	n cirent company to Xenco, Its ny losses or expenses incurre submitted to Xenco, but not a	11 Al Sb As Ba Be RCRA Sb As Ba Be			10	J.	* × ×	X	-	x	-	× ×	Numbo TPH (EI BTEX (I	PA 8	015) 8021)							nv.com rmcafee@lten	ZIP: Carlsbad, NM		Name: XTO Energy	ferent) Kyle Littrell	Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio, Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,T 575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-88
4	2	Relinquished by: (Signature)	service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Cd Ca Cr Co Cu Fe Pb Cd Cr Co Cu Pb Mn Mo Mo			100		~					~	Chlorid	e (Ef		00.0)						ANALYSIS REQUEST	@ltenv.com		e St.			Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs.NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
		ure) Received by: (Signature)	tractors. It assigns standard terms and conditions losses are due to circumstances beyond the control will be enforced unless previously negotiated.	Ag SiO2													ТА							JEST	Deliverables: EDD	Reporting:Level II	NM	Program: UST/PST PRP Brownfields	Work Order Com	Work Order No:
		Date/Time		Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg	/				4				Composito	(numprisite	Sample Comments	lab, if received by 4:30pm	VT starts the day reposited by th							Work Order Notes	Othe			ds RC Duperfund		458520 Page 1 of 1

Released to Imaging: 1/5/2024 3:07:117 PMM

Final 1.000

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC								
Date/ Time Received: 04.09.2020 04.13.00 PM	Air and Metal samples Acceptable Range: Ambient								
Work Order #: 658520	Temperature Measuring device used : T-NM-007								
Sample Recei	pt Checklist Comments								
#1 *Temperature of cooler(s)?	1.6								
#2 *Shipping container in good condition?	Yes								
#3 *Samples received on ice?	Yes								
#4 *Custody Seals intact on shipping container/ cooler?	Yes								
#5 Custody Seals intact on sample bottles?	Yes								
#6*Custody Seals Signed and dated?	Yes								
#7 *Chain of Custody present?	Yes								
#8 Any missing/extra samples?	No								
#9 Chain of Custody signed when relinquished/ received?	Yes								
#10 Chain of Custody agrees with sample labels/matrix?	Yes								
#11 Container label(s) legible and intact?	Yes								
#12 Samples in proper container/ bottle?	Yes								
#13 Samples properly preserved?	Yes								
#14 Sample container(s) intact?	Yes								
#15 Sufficient sample amount for indicated test(s)?	Yes								
#16 All samples received within hold time?	Yes								
#17 Subcontract of sample(s)?	No								
#18 Water VOC samples have zero headspace?	N/A								

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Checklist reviewed by: Lessica Kramer

Date: 04.09.2020

Jessica Kramer

Date: 04.10.2020

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	66030
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Í	Created	Condition	Condition
	By		Date
	jnobui	Deferral Request Approved.	3/4/2022

CONDITIONS

Action 66030



APPENDIX B

Photographic Log





APPENDIX C

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 7/12/2023 8:59:44 AM

JOB DESCRIPTION

Poker Lake Unit 147 SDG NUMBER 03C1558252

JOB NUMBER

890-4896-1

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

AMER

Generated 7/12/2023 8:59:44 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

Laboratory Job ID: 890-4896-1 SDG: 03C1558252

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	17
QC Sample Results	19
	26
Lab Chronicle	30
Certification Summary	34
Method Summary	35
Sample Summary	36
Chain of Custody	37
-	39

2

	Definitions/Gloceany	
	Definitions/Glossary	
Client: Ensolur Project/Site: Pr	Job ID: 890-4896- bker Lake Unit 147 SDG: 03C1558252 SDG: 03C1558252	
Qualifiers		
		-
GC VOA Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	-
S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA Qualifier	Qualifier Description	
F2	MS/MSD RPD exceeds control limits	-
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
	······································	
HPLC/IC Qualifier	Qualifier Description	
	Indicates the analyte was analyzed for but not detected.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	- 1
¤	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	
CNF	Contains No Free Liquid	
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	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit PRES Presumptive

QC Quality Control

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

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

Toxicity Equivalent Factor (Dioxin) TEF

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

Job ID: 890-4896-1 SDG: 03C1558252

Job ID: 890-4896-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Project/Site: Poker Lake Unit 147

Narrative

Job Narrative 890-4896-1

Receipt

The samples were received on 7/3/2023 10:15 AM. 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 4.0°C

GC VOA

Method 8021B: Surrogate recovery for the fe	ollowing samples were outside control limits:	(CCV 880-57094/2),	(CCV 880-57094/20),	(LCS
880-57092/1-A) and (LCSD 880-57092/2-A)	. Evidence of matrix interferences is not obv	vious.		

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS01 (890-4896-1), SW01 (890-4896-2), SW02 (890-4896-3), SW03 (890-4896-4), SW04 (890-4896-5), SW05 (890-4896-6), SW06 (890-4896-7), SW07 (890-4896-8), FS02 (890-4896-9), SW08 (890-4896-10), SW09 (890-4896-11), SW10 (890-4896-12), (890-4896-A-1-B MS) and (890-4896-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-57092 and analytical batch 880-57094 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: CCV inadvertently double spiked. An acceptable CCV was analyzed within the 12 hour window, therefore data was qualified and reported.(CCV 880-57094/2)

Method 8021B: CCV was biased high for analytes. Since no analytes were detected, the data was qualified and reported.(CCV 880-57118/20) and (CCV 880-57118/33)

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: Surrogate recovery for the following samples were outside control limits: FS01 (890-4896-1) and SW02 (890-4896-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW03 (890-4896-4), SW04 (890-4896-5), SW05 (890-4896-6), SW06 (890-4896-7), SW07 (890-4896-8), FS02 (890-4896-9) and (890-4895-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW09 (890-4896-11) and FS03 (890-4896-13). 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) precision for preparation batch 880-57165 and analytical batch 880-57372 was outside control limits. Sample non-homogeneity is suspected.

Page 5 of 40

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

HPLC/IC

Released to Imaging: 1/5/2024 3:07:17 PM

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

Job ID: 890-4896-1 SDG: 03C1558252

Matrix: Solid

Dil Fac

1

5

Lab Sample ID: 890-4896-1

Analyzed

07/06/23 18:36

Client Sample ID: FS01

Project/Site: Poker Lake Unit 147

Date Collected: 06/29/23 09:15 Date Received: 07/03/23 10:15

Sample Depth: 1

Client: Ensolum

D

Prepared

07/06/23 13:00

Sample Depth: 12				
	olatile Organic Comp	ounds (GC)		
Analyte	Result	Qualifier	RL	Unit
Benzene	< 0.00199	U *+	0.00199	mg/Kg
Toluene	<0.00199	U *+	0.00199	mg/Kg

Telesees								
Toluene	<0.00199	U *+	0.00199	mg/Kg		07/06/23 13:00	07/06/23 18:36	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		07/06/23 13:00	07/06/23 18:36	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		07/06/23 13:00	07/06/23 18:36	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		07/06/23 13:00	07/06/23 18:36	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		07/06/23 13:00	07/06/23 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130			07/06/23 13:00	07/06/23 18:36	1
1,4-Difluorobenzene (Surr)	75		70 - 130			07/06/23 13:00	07/06/23 18:36	1
Method: TAL SOP Total BTEX - 1 Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/07/23 10:09	1
- Mathada OMO 40,0045 NM - Diaga								
Method: SW846 8015 NM - Diese	el Range Organ	ICS (DRU) (GC)					
Method: SW846 8015 NM - Diese Analyte		Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/11/23 18:13	Dil Fac
Analyte	Result <49.8	Qualifier U	RL 49.8		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <49.8	Qualifier U	RL 49.8		<u>D</u>	Prepared		Dil Fac 1 Dil Fac
Analyte Total TPH - Method: SW846 8015B NM - Dies	Result <49.8	Qualifier U Inics (DRO) Qualifier	(GC)	mg/Kg			07/11/23 18:13	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 sel Range Orga Result	Qualifier U Qualifier Qualifier U	(GC)	mg/Kg Unit		Prepared	07/11/23 18:13 Analyzed	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8 sel Range Orga Result <49.8	Qualifier U Qualifier U U U	RL 49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 07/11/23 10:04	07/11/23 18:13 Analyzed 07/11/23 13:09	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U Qualifier U U U U	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/23 10:04 07/11/23 10:04	07/11/23 18:13 Analyzed 07/11/23 13:09 07/11/23 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	07/11/23 10:04	07/11/23 13:09	1
o-Terphenyl	119		70 - 130	07/11/23 10:04	07/11/23 13:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analvte Result Qualifier ы

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117	5.01	mg/Kg			07/07/23 20:22	1

Client Sample ID: SW01

Date Collected: 06/29/23 12:45 Date Received: 07/03/23 10:15 Sample Depth: 4 - 12

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198	mg/Kg		07/06/23 13:00	07/06/23 19:02	1
Toluene	<0.00198	U *+	0.00198	mg/Kg		07/06/23 13:00	07/06/23 19:02	1
Ethylbenzene	<0.00198	U *+	0.00198	mg/Kg		07/06/23 13:00	07/06/23 19:02	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396	mg/Kg		07/06/23 13:00	07/06/23 19:02	1
o-Xylene	<0.00198	U *+	0.00198	mg/Kg		07/06/23 13:00	07/06/23 19:02	1
Xylenes, Total	<0.00396	U *+	0.00396	mg/Kg		07/06/23 13:00	07/06/23 19:02	1

Eurofins Carlsbad

Lab Sample ID: 890-4896-2

Matrix: Solid

Job ID: 890-4896-1 SDG: 03C1558252

Matrix: Solid

5

Lab Sample ID: 890-4896-2

Project/Site: Poker Lake Unit 147
Client Sample ID: SW01

Date Collected: 06/29/23 12:45

Date Received: 07/03/23 10:15 Sample Depth: 4 - 12

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166	S1+	70 - 130			07/06/23 13:00	07/06/23 19:02	1
1,4-Difluorobenzene (Surr)	78		70 - 130			07/06/23 13:00	07/06/23 19:02	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/07/23 10:09	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/11/23 18:13	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/11/23 10:04	07/11/23 14:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/11/23 10:04	07/11/23 14:18	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/11/23 10:04	07/11/23 14:18	1
Total TPH	<49.9	U	49.9	mg/Kg		07/11/23 10:04	07/11/23 14:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			07/11/23 10:04	07/11/23 14:18	1
o-Terphenyl	115		70 - 130			07/11/23 10:04	07/11/23 14:18	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chloride	128		5.04	mg/Kg			07/07/23 20:37	1
lient Sample ID: SW02						Lab Sar	nple ID: 890-	4896-3
ate Collected: 06/29/23 12:55							Matri	x: Solid
ate Received: 07/03/23 10:15								
ample Depth: 4 - 12								
Method: SW846 8021B - Volatile								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202	mg/Kg		07/06/23 13:00	07/06/23 19:28	1
Toluene	<0.00202		0.00202	mg/Kg		07/06/23 13:00	07/06/23 19:28	1
Ethylbenzene	<0.00202	U *+	0.00202	mg/Kg		07/06/23 13:00	07/06/23 19:28	1
m-Xylene & p-Xylene	<0.00404	U *+	0.00404	mg/Kg		07/06/23 13:00	07/06/23 19:28	1
o-Xylene	<0.00202	U *+	0.00202	mg/Kg		07/06/23 13:00	07/06/23 19:28	1
Xylenes, Total	<0.00404	U *+	0.00404	mg/Kg		07/06/23 13:00	07/06/23 19:28	1
Surrogata	%Recovery	Qualifiar	l inside			Duanavad	Amelianad	D:/ C
Surrogate	%Recovery	Quaimer	Limits			Prepared	Analyzed	Dil Fac

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared

176 S1+

86

70 - 130

70 - 130

07/06/23 19:28

07/06/23 19:28

07/06/23 13:00

07/06/23 13:00

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

1

Job ID: 890-4896-1 SDG: 03C1558252

Matrix: Solid

5

Lab Sample ID: 890-4896-3

Client Sample ID: SW02

Project/Site: Poker Lake Unit 147

Date Collected: 06/29/23 12:55 Date Received: 07/03/23 10:15

Sample Depth: 4 - 12

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/11/23 18:13	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/11/23 10:04	07/11/23 14:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/11/23 10:04	07/11/23 14:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/11/23 10:04	07/11/23 14:41	1
Total TPH	<49.9	U	49.9	mg/Kg		07/11/23 10:04	07/11/23 14:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			07/11/23 10:04	07/11/23 14:41	1
o-Terphenyl	112		70 - 130			07/11/23 10:04	07/11/23 14:41	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		5.05	mg/Kg			07/07/23 20:43	1

Collected: 06/29/23 13:05 Date Received: 07/03/23 10:15

Sample Depth: 4 - 12

Matrix: Solid

Method: SW846 8021B - Volati								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		07/06/23 13:00	07/06/23 19:54	1
Toluene	<0.00200	U *+	0.00200	mg/Kg		07/06/23 13:00	07/06/23 19:54	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		07/06/23 13:00	07/06/23 19:54	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401	mg/Kg		07/06/23 13:00	07/06/23 19:54	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		07/06/23 13:00	07/06/23 19:54	1
Xylenes, Total	<0.00401	U *+	0.00401	mg/Kg		07/06/23 13:00	07/06/23 19:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	198	S1+	70 - 130			07/06/23 13:00	07/06/23 19:54	1
1,4-Difluorobenzene (Surr)	80		70 - 130			07/06/23 13:00	07/06/23 19:54	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation				01100120 10.00		
Method: TAL SOP Total BTEX	- Total BTEX Cal	culation				01/00/20 10:00		
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
		Qualifier		Unit mg/Kg	<u>D</u>			Dil Fac
Analyte	Result <0.00401	Qualifier U	RL 0.00401		<u> </u>		Analyzed	Dil Fac
Analyte Total BTEX	Result <0.00401 sel Range Organ	Qualifier U	RL 0.00401		<u>D</u> 		Analyzed	Dil Fac 1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Die	Result <0.00401 sel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00401	mg/Kg		Prepared	Analyzed 07/07/23 10:09	1
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	sel Range Organ <u>Result</u> <u>Result</u> <50.1	Qualifier U ics (DRO) (Qualifier U	RL 0.00401 GC) RL 50.1	mg/Kg Unit		Prepared	Analyzed 07/07/23 10:09 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	Result Contemporation Result sel Range Organ Result <50.1	Qualifier U ics (DRO) (Qualifier U	RL 0.00401 GC) RL 50.1	mg/Kg Unit		Prepared	Analyzed 07/07/23 10:09 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	Result Contemporation Result sel Range Organ Result <50.1	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00401 GC) RL 50.1	mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 07/07/23 10:09 Analyzed 07/12/23 09:47	1 Dil Fac 1
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte	Result <0.00401 sel Range Organ Result <50.1 iesel Range Orga Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00401 GC) RL 50.1 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared Prepared	Analyzed 07/07/23 10:09 Analyzed 07/12/23 09:47 Analyzed	1 Dil Fac 1

Eurofins Carlsbad

07/12/23 01:18

07/07/23 12:33

Oll Range Organics (Over C28-C36)

C10-C28)

50.1

mg/Kg

<50.1 U

Job ID: 890-4896-7
SDG: 03C1558252

Lab Sample ID: 890-4896-4

Client Sample ID: SW03

Project/Site: Poker Lake Unit 147

Date Collected: 06/29/23 13:05 Date Received: 07/03/23 10:15

Sample Depth: 4 - 12

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg		07/07/23 12:33	07/12/23 01:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130			07/07/23 12:33	07/12/23 01:18	1
o-Terphenyl	118		70 - 130			07/07/23 12:33	07/12/23 01:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	141	5.05	mg/Kg			07/07/23 20:48	1	
Client Sample ID: SW04					Lab Sar	nple ID: 890-	4896-5	

Client Sample ID: SW04

Date Collected: 06/29/23 14:25 Date Received: 07/03/23 10:15

Sample Depth: 4 - 12

Method: SW846 8021B - Volatil	e Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201	mg/Kg		07/06/23 13:00	07/06/23 20:21	1
Toluene	<0.00201	U *+	0.00201	mg/Kg		07/06/23 13:00	07/06/23 20:21	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		07/06/23 13:00	07/06/23 20:21	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		07/06/23 13:00	07/06/23 20:21	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		07/06/23 13:00	07/06/23 20:21	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		07/06/23 13:00	07/06/23 20:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	176	S1+	70 - 130			07/06/23 13:00	07/06/23 20:21	1
1,4-Difluorobenzene (Surr)	74		70 - 130			07/06/23 13:00	07/06/23 20:21	1

Method: TAL SOP Total BTEX -	Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/07/23 10:09	1

Method: SW846 8015 NM - Diesel Rar	nge Organi	ics (DRO) (G	C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			07/12/23 09:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.3	U	50.3	mg/Kg		07/07/23 12:33	07/12/23 01:40	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.3	U	50.3	mg/Kg		07/07/23 12:33	07/12/23 01:40	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		07/07/23 12:33	07/12/23 01:40	1
Total TPH	<50.3	U	50.3	mg/Kg		07/07/23 12:33	07/12/23 01:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130			07/07/23 12:33	07/12/23 01:40	1
o-Terphenyl	123		70 - 130			07/07/23 12:33	07/12/23 01:40	1

Matrix: Solid

Matrix: Solid

Client Sample Results

		Clien	t Sample Re	Suits				
Client: Ensolum Project/Site: Poker Lake Unit 147							Job ID: 890 SDG: 03C1	
-								
lient Sample ID: SW04						Lab San	nple ID: 890-	4896-
ate Collected: 06/29/23 14:25							Matri	ix: Soli
ate Received: 07/03/23 10:15								
ample Depth: 4 - 12								
Method: EPA 300.0 - Anions, Ior	Chromatograp	hy - Solubl	e					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	190		4.99	mg/Kg			07/07/23 20:53	
lient Sample ID: SW05						Lab Sar	nple ID: 890-	4896-
ate Collected: 06/29/23 14:30								ix: Soli
ate Received: 07/03/23 10:15								
Sample Depth: 4 - 12								
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202		0.00202	mg/Kg		07/06/23 13:00	07/06/23 20:47	
Toluene	<0.00202	U *+	0.00202	mg/Kg		07/06/23 13:00	07/06/23 20:47	
Ethylbenzene	<0.00202	U *+	0.00202	mg/Kg		07/06/23 13:00	07/06/23 20:47	
m-Xylene & p-Xylene	<0.00403	U *+	0.00403	mg/Kg		07/06/23 13:00	07/06/23 20:47	
o-Xylene	< 0.00202		0.00202	mg/Kg		07/06/23 13:00	07/06/23 20:47	
Xylenes, Total	<0.00403		0.00403	mg/Kg		07/06/23 13:00	07/06/23 20:47	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzad	Dil Fa
4-Bromofluorobenzene (Surr)		S1+	70 - 130			07/06/23 13:00	Analyzed 07/06/23 20:47	
1,4-Difluorobenzene (Surr)	83	571	70 - 130 70 - 130			07/06/23 13:00	07/06/23 20:47	
			101100			07700,20 10.00	01100,20 20.11	
Method: TAL SOP Total BTEX -	Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/07/23 10:09	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.4	U	50.4	mg/Kg			07/12/23 09:47	
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		07/07/23 12:33	07/12/23 02:01	
Diesel Range Organics (Over	<50.4	U	50.4	mg/Kg		07/07/23 12:33	07/12/23 02:01	
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/07/23 12:33	07/12/23 02:01	
Total TPH	<50.4	U	50.4	mg/Kg		07/07/23 12:33	07/12/23 02:01	
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	143	S1+	70 - 130			07/07/23 12:33	07/12/23 02:01	
o-Terphenyl	125		70 - 130			07/07/23 12:33	07/12/23 02:01	
Method: EPA 300.0 - Anions, Ior	Chromatograp	hy - Solubl	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyto							•	

Eurofins Carlsbad

Job ID: 890-4896-1 SDG: 03C1558252

Project/Site: Poker Lake Unit 147 Client Sample ID: SW06

Date Collected: 06/30/23 09:50 Date Received: 07/03/23 10:15

Sample Depth: 0 - 4

Client: Ensolum

Lab Sample ID: 890-4896-7

Matrix: Solid

5

|2 |3

nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		07/06/23 13:00	07/06/23 21:13	1
oluene	<0.00200	U *+	0.00200	mg/Kg		07/06/23 13:00	07/06/23 21:13	1
thylbenzene	<0.00200	U *+	0.00200	mg/Kg		07/06/23 13:00	07/06/23 21:13	1
n-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		07/06/23 13:00	07/06/23 21:13	1
-Xylene	<0.00200	U *+	0.00200	mg/Kg		07/06/23 13:00	07/06/23 21:13	1
kylenes, Total	<0.00399	U *+	0.00399	mg/Kg		07/06/23 13:00	07/06/23 21:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
-Bromofluorobenzene (Surr)	178	S1+	70 - 130			07/06/23 13:00	07/06/23 21:13	1
,4-Difluorobenzene (Surr)	83		70 - 130			07/06/23 13:00	07/06/23 21:13	1
Method: TAL SOP Total BTEX - To	otal BTEX Calo	culation						
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
otal BTEX	<0.00399	U	0.00399	mg/Kg			07/07/23 10:09	1
Aethod: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.0		50.3	mg/Kg			07/12/23 09:47	1
Aethod: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	<50.3	U	50.3	mg/Kg		07/07/23 12:33	07/12/23 02:22	1
Diesel Range Organics (Over	72.0		50.3	mg/Kg		07/07/23 12:33	07/12/23 02:22	1
C10-C28) DII Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		07/07/23 12:33	07/12/23 02:22	1
otal TPH	72.0		50.3	mg/Kg		07/07/23 12:33	07/12/23 02:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
-Chlorooctane	139	S1+	70 - 130			07/07/23 12:33	07/12/23 02:22	1
-Terphenyl	115		70 - 130			07/07/23 12:33	07/12/23 02:22	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	87.2		5.03	mg/Kg			07/07/23 21:03	1

Date Collected: 06/30/23 10:30 Date Received: 07/03/23 10:15 Sample Depth: 0 - 4

Released to Imaging: 1/5/2024 3:07:17 PM

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Benzene <0.00198 U*+ 0.00198 mg/Kg 07/06/23 13:00 07/06/23 21:39 Toluene <0.00198 U*+ 0.00198 mg/Kg 07/06/23 13:00 07/06/23 21:39 0.00198 07/06/23 13:00 07/06/23 21:39 Ethylbenzene <0.00198 U*+ mg/Kg 07/06/23 13:00 m-Xylene & p-Xylene <0.00396 U*+ 0.00396 07/06/23 21:39 mg/Kg o-Xylene <0.00198 U*+ 0.00198 07/06/23 13:00 07/06/23 21:39 mg/Kg <0.00396 U*+ 0.00396 07/06/23 13:00 07/06/23 21:39 Xylenes, Total mg/Kg

Eurofins Carlsbad

Dil Fac

1

1

1

1

1

Job ID: 890-4896-1 SDG: 03C1558252

Matrix: Solid

5

Project/Site: Poker Lake Unit 147 Client Sample ID: SW07

Date Collected: 06/30/23 10:30 Date Received: 07/03/23 10:15

Sample Depth: 0 - 4

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	182	S1+	70 - 130			07/06/23 13:00	07/06/23 21:39	1
1,4-Difluorobenzene (Surr)	72		70 - 130			07/06/23 13:00	07/06/23 21:39	1
Method: TAL SOP Total BTEX - To	otal BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/07/23 10:09	1
- Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/12/23 09:47	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/12/23 02:44	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/12/23 02:44	1
C10-C28)				0.0				
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/12/23 02:44	1
Total TPH	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/12/23 02:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130			07/07/23 12:33	07/12/23 02:44	1
o-Terphenyl	115		70 - 130			07/07/23 12:33	07/12/23 02:44	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e					
		Qualifier	RL	Unit	-	Prepared	Analyzed	Dil Fac
Analyte	Result	Quaimer			D		Allalyzeu	
Analyte Chloride	Result 200		4.98	mg/Kg	<u>D</u>		07/07/23 21:18	1
Chloride						Lab San		1
						Lab San	07/07/23 21:18	1
Chloride Client Sample ID: FS02 Date Collected: 06/30/23 11:00					<u> </u>	Lab San	07/07/23 21:18	4896-9
Chloride Client Sample ID: FS02 Date Collected: 06/30/23 11:00 Date Received: 07/03/23 10:15		Quainer			<u> </u>	Lab San	07/07/23 21:18	4896-9
Chloride Client Sample ID: FS02 Date Collected: 06/30/23 11:00 Date Received: 07/03/23 10:15	200		4.98			Lab San	07/07/23 21:18	4896-9
Chloride Client Sample ID: FS02 Date Collected: 06/30/23 11:00 Date Received: 07/03/23 10:15 Sample Depth: 13	200 200		4.98		D	Lab San	07/07/23 21:18	4896-9
Chloride Client Sample ID: FS02 Date Collected: 06/30/23 11:00 Date Received: 07/03/23 10:15 Sample Depth: 13 Method: SW846 8021B - Volatile (200 200	ounds (GC)	4.98	mg/Kg			07/07/23 21:18 nple ID: 890-4 Matri	1 4896-9 x: Solid
Chloride Client Sample ID: FS02 pate Collected: 06/30/23 11:00 pate Received: 07/03/23 10:15 sample Depth: 13 Method: SW846 8021B - Volatile (Analyte Benzene	200 Drganic Comp Result <0.00200	ounds (GC) Qualifier	4.98	mg/Kg		Prepared	07/07/23 21:18 nple ID: 890-4 Matri	1 4896-9 x: Solid Dil Fac
Chloride Client Sample ID: FS02 Date Collected: 06/30/23 11:00 Date Received: 07/03/23 10:15 Sample Depth: 13 Method: SW846 8021B - Volatile (Analyte	200 Drganic Comp Result <0.00200	ounds (GC) Qualifier U *+ U *+	4.98	mg/Kg		Prepared 07/06/23 13:00	07/07/23 21:18 nple ID: 890- Matri <u>Analyzed</u> 07/06/23 22:05	1 4896-9 x: Solid
Chloride Client Sample ID: FS02 Date Collected: 06/30/23 11:00 Date Received: 07/03/23 10:15 Sample Depth: 13 Method: SW846 8021B - Volatile (Analyte Benzene Toluene	200 Drganic Comp Result <0.00200 <0.00200	ounds (GC) Qualifier U *+ U *+ U *+ U *+	4.98 4.98	Unit mg/Kg mg/Kg mg/Kg		Prepared 07/06/23 13:00 07/06/23 13:00	07/07/23 21:18 nple ID: 890- Matri Analyzed 07/06/23 22:05 07/06/23 22:05	1 4896-9 x: Solid Dil Fac
Chloride Client Sample ID: FS02 Date Collected: 06/30/23 11:00 Date Received: 07/03/23 10:15 Sample Depth: 13 Method: SW846 8021B - Volatile (Analyte Benzene Toluene Ethylbenzene	200 Drganic Comp Result Computereditation-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-computered-com	ounds (GC) Qualifier U *+ U *+ U *+ U *+	4.98 RL 0.00200 0.00200 0.00200 0.00200	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/06/23 13:00 07/06/23 13:00 07/06/23 13:00	07/07/23 21:18 nple ID: 890- Matri 07/06/23 22:05 07/06/23 22:05 07/06/23 22:05	1 4896-9 x: Solid Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	171	S1+	70 - 130		07/06/23 13:00	07/06/23 22:05	1
1,4-Difluorobenzene (Surr)	82		70 _ 130		07/06/23 13:00	07/06/23 22:05	1
Method: TAL SOP Total BTEX - Tot	tal BTEX Calo	culation					
Analyte	Result	Qualifier	RL	Unit D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg		07/07/23 10:09	1

Eurofins Carlsbad

Lab Sample ID: 890-4896-8

Job ID: 890-4896-1 SDG: 03C1558252

Matrix: Solid

5

Lab Sample ID: 890-4896-9

Client Sample ID: FS02

Project/Site: Poker Lake Unit 147

Date Collected: 06/30/23 11:00 Date Received: 07/03/23 10:15

Sample Depth: 13

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/12/23 09:47	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/07/23 12:33	07/12/23 03:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/07/23 12:33	07/12/23 03:05	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/07/23 12:33	07/12/23 03:05	1
Total TPH	<49.9	U	49.9	mg/Kg		07/07/23 12:33	07/12/23 03:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130			07/07/23 12:33	07/12/23 03:05	1
o-Terphenyl	121		70 - 130			07/07/23 12:33	07/12/23 03:05	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	224		5.04	mg/Kg			07/07/23 21:23	1
Chioride	224		5.04	mg/Kg		Lah Sam	ple ID: 890-4	906 ·

Date Received: 07/03/23 10:15

Sample Depth: 4 - 12

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201	mg/Kg		07/06/23 13:00	07/06/23 22:32	1
Toluene	<0.00201	U *+	0.00201	mg/Kg		07/06/23 13:00	07/06/23 22:32	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		07/06/23 13:00	07/06/23 22:32	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		07/06/23 13:00	07/06/23 22:32	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		07/06/23 13:00	07/06/23 22:32	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		07/06/23 13:00	07/06/23 22:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	203	S1+	70 - 130			07/06/23 13:00	07/06/23 22:32	1
1,4-Difluorobenzene (Surr)	84		70 - 130			07/06/23 13:00	07/06/23 22:32	1
Method: TAL SOP Total BTEX Analyte		culation Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402	mg/Kg			07/07/23 10:09	1
 Method: SW846 8015 NM - Die Analyte		i <mark>cs (DRO) (</mark> Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			07/12/23 09:47	1
- Method: SW846 8015B NM - D	iesel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.2	U	50.2	mg/Kg		07/07/23 12:33	07/12/23 06:48	1

· ·····				_		· ···· ·	
Gasoline Range Organics	<50.2	U 50.2	mg/Kg		07/07/23 12:33	07/12/23 06:48	1
(GRO)-C6-C10							
Diesel Range Organics (Over	<50.2 l	U 50.2	mg/Kg		07/07/23 12:33	07/12/23 06:48	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<50.2 l	U 50.2	mg/Kg		07/07/23 12:33	07/12/23 06:48	1

Eurofins Carlsbad

Job ID: 890-4896-1 SDG: 03C1558252

Matrix: Solid

Dil Fac

5

Lab Sample ID: 890-4896-10

Analyzed

Client Sample ID: SW08

Project/Site: Poker Lake Unit 147

Date Collected: 06/30/23 14:50 Date Received: 07/03/23 10:15

Sample Depth: 4 - 12

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.2	U	50.2	mg/Kg		07/07/23 12:33	07/12/23 06:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			07/07/23 12:33	07/12/23 06:48	1
o-Terphenyl	108		70 - 130			07/07/23 12:33	07/12/23 06:48	7

Analyte _____ Result Qualifier ____ RL

Chloride	780	5.04	mg/Kg	07/07/23 21:39 1
Client Sample ID: SW09				Lab Sample ID: 890-4896-11
Date Collected: 06/30/23 12:55				Matrix: Solid
Date Received: 07/03/23 10:15				

Unit

D

Prepared

Sample Depth: 0 - 4

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U *+	0.00199	mg/Kg		07/06/23 13:00	07/07/23 00:19	1
Toluene	<0.00199	U *+	0.00199	mg/Kg		07/06/23 13:00	07/07/23 00:19	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		07/06/23 13:00	07/07/23 00:19	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		07/06/23 13:00	07/07/23 00:19	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		07/06/23 13:00	07/07/23 00:19	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		07/06/23 13:00	07/07/23 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130			07/06/23 13:00	07/07/23 00:19	1
1,4-Difluorobenzene (Surr)	79		70 - 130			07/06/23 13:00	07/07/23 00:19	1

Method: TAL SOP Total BTEX - Tot	al BTEX Calo	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/07/23 10:09	1
_								

Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/12/23 09:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		07/07/23 12:33	07/12/23 07:11	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		07/07/23 12:33	07/12/23 07:11	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/07/23 12:33	07/12/23 07:11	1
Total TPH	<49.9	U	49.9	mg/Kg		07/07/23 12:33	07/12/23 07:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			07/07/23 12:33	07/12/23 07:11	1
o-Terphenyl	111		70 - 130			07/07/23 12:33	07/12/23 07:11	1

		Clien	t Sample Re	sults				
Client: Ensolum Project/Site: Poker Lake Unit 147							Job ID: 890 SDG: 03C1	
Client Sample ID: SW09						l ah Sam	ple ID: 890-4	806-11
Date Collected: 06/30/23 12:55						Lab Sam	-	ix: Solid
Date Received: 07/03/23 12:55							watri	IX: 50110
Sample Depth: 0 - 4								
Method: EPA 300.0 - Anions, Ion C	Chromatograp	hy - Solubl	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		4.96	mg/Kg			07/07/23 21:44	
lient Sample ID: SW10						Lab Sam	ple ID: 890-4	896-12
ate Collected: 06/30/23 14:30							-	ix: Solid
Date Received: 07/03/23 10:15								
Sample Depth: 4 - 12								
Method: SW846 8021B - Volatile C	raania Comn	ounds (CC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198	mg/Kg		07/06/23 13:00	07/07/23 00:46	1
Toluene	<0.00198	U *+	0.00198	mg/Kg		07/06/23 13:00	07/07/23 00:46	1
Ethylbenzene	<0.00198	U *+	0.00198	mg/Kg		07/06/23 13:00	07/07/23 00:46	
m-Xylene & p-Xylene	<0.00397	U *+	0.00397	mg/Kg		07/06/23 13:00	07/07/23 00:46	
o-Xylene	<0.00198	U *+	0.00198	mg/Kg		07/06/23 13:00	07/07/23 00:46	1
Xylenes, Total	<0.00397	U *+	0.00397	mg/Kg		07/06/23 13:00	07/07/23 00:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	189	S1+	70 - 130			07/06/23 13:00	07/07/23 00:46	1
1,4-Difluorobenzene (Surr)	75		70 - 130			07/06/23 13:00	07/07/23 00:46	1
- Method: TAL SOP Total BTEX - To	tal BTEX Cal	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397		0.00397	mg/Kg			07/07/23 10:09	1
-								
Method: SW846 8015 NM - Diesel				11-14		Descende	A see borne al	D1 5
Analyte		Qualifier		Unit	D	Prepared	Analyzed 07/12/23 09:47	1
Total TPH	208		50.2	mg/Kg			07/12/23 09.47	I
Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.2	U	50.2	mg/Kg		07/07/23 12:33	07/12/23 07:33	1
(GRO)-C6-C10			F0 2	malka		07/07/22 12:22	07/10/00 07.00	1
Diesel Range Organics (Over C10-C28)	208		50.2	mg/Kg		07/07/23 12:33	07/12/23 07:33	1
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/07/23 12:33	07/12/23 07:33	1
Total TPH	208		50.2	mg/Kg		07/07/23 12:33	07/12/23 07:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			07/07/23 12:33	07/12/23 07:33	1
o-Terphenyl	102		70 - 130			07/07/23 12:33	07/12/23 07:33	1
			-					
Method: EPA 300.0 - Anions, Ion C Analyte		hy - Solubl Qualifier	e RL	Unit	D	Prepared	Analyzod	Dil Fac
Analyse .	Result	quamer	nL.	Unit		riepaieu	Analyzed	DULLAC

AnalyteResultQualifierRLUnitDPreparedAnalyzedDil FacChloride1974.95mg/Kg07/07/23 21:491

Eurofins Carlsbad

Job ID: 890-4896-1 SDG: 03C1558252

Client Sample ID: FS03

Project/Site: Poker Lake Unit 147

Date Collected: 06/30/23 14:45 Date Received: 07/03/23 10:15

Sample Depth: 13

Client: Ensolum

Lab Sample ID: 890-4896-13

Matrix: Solid

Method: SW846 8021B - Volatile Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/07/23 09:28	07/07/23 22:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/07/23 09:28	07/07/23 22:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/07/23 09:28	07/07/23 22:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/07/23 09:28	07/07/23 22:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/07/23 09:28	07/07/23 22:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/07/23 09:28	07/07/23 22:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	201	S1+	70 - 130			07/07/23 09:28	07/07/23 22:04	1
1,4-Difluorobenzene (Surr)	80		70 - 130			07/07/23 09:28	07/07/23 22:04	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fotal BTEX	<0.00400	U	0.00400	mg/Kg			07/10/23 15:18	1
Analuto		•						
	Result <50.1	Qualifier U	RL 50.1	Unit mg/Kg	D	Prepared	Analyzed 07/12/23 09:47	Dil Fac
Total TPH	<50.1	U	50.1		D	Prepared		Dil Fac 1
Total TPH Method: SW846 8015B NM - Dies	<pre><50.1</pre>	U	50.1		<u>D</u>	Prepared		Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<pre><50.1</pre>	U nics (DRO) Qualifier	50.1 (GC)	mg/Kg		<u>·</u>	07/12/23 09:47	1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	<pre><50.1 sel Range Orga Result</pre>	U nics (DRO) Qualifier U	50.1 (GC) RL	mg/Kg Unit		Prepared	07/12/23 09:47 Analyzed	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<pre>sel Range Orga _ Result </pre>	U nics (DRO) Qualifier U	50.1 (GC) RL 50.1	mg/Kg Unit mg/Kg		Prepared 07/07/23 12:33	07/12/23 09:47 Analyzed 07/12/23 07:55	1 Dil Fac 1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)	<50.1 sel Range Orga Result <50.1 <50.1	U nics (DRO) Qualifier U U U	50.1 (GC) RL 50.1 50.1	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/07/23 12:33 07/07/23 12:33	07/12/23 09:47 Analyzed 07/12/23 07:55 07/12/23 07:55	1 Dil Fac 1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Total TPH	<50.1 sel Range Orga Result <50.1 <50.1 <50.1	U nics (DRO) Qualifier U U U U	50.1 (GC) RL 50.1 50.1 50.1	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/07/23 12:33 07/07/23 12:33 07/07/23 12:33	07/12/23 09:47 Analyzed 07/12/23 07:55 07/12/23 07:55 07/12/23 07:55	1 Dil Fac 1 1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Total TPH Surrogate	<50.1 sel Range Orga Result <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1	U nics (DRO) Qualifier U U U U	S0.1 (GC) RL 50.1 50.1 50.1 50.1 50.1	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/07/23 12:33 07/07/23 12:33 07/07/23 12:33 07/07/23 12:33	Analyzed 07/12/23 09:47 Analyzed 07/12/23 07:55 07/12/23 07:55 07/12/23 07:55 07/12/23 07:55 07/12/23 07:55	1 Dil Fac 1 1 1 1 1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	<50.1 sel Range Orga Result <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1	U nics (DRO) Qualifier U U U U Qualifier	50.1 (GC) <u>RL</u> 50.1 50.1 50.1 50.1 <u>Limits</u>	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/07/23 12:33 07/07/23 12:33 07/07/23 12:33 07/07/23 12:33 Prepared	07/12/23 09:47 Analyzed 07/12/23 07:55 07/12/23 07:55 07/12/23 07:55 07/12/23 07:55 Analyzed	1 Dil Fac 1 1 1 1 1 0 1 <i>Dil Fac</i>
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	<50.1 sel Range Orga Result <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <100 million <100 million 100 million 100 million 100 million 100 million 100 million	U nics (DRO) Qualifier U U U U U U Qualifier S1+	50.1 (GC) <u>RL</u> 50.1 50.1 50.1 50.1 <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u>	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/07/23 12:33 07/07/23 12:33 07/07/23 12:33 07/07/23 12:33 Prepared 07/07/23 12:33	07/12/23 09:47 Analyzed 07/12/23 07:55 07/12/23 07:55 07/12/23 07:55 07/12/23 07:55 Analyzed 07/12/23 07:55	1 Dil Fac 1 1 1 1 1 1 0 <i>Dil Fac</i> 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	<50.1 sel Range Orga Result <50.1 <50.1 <50.1 <50.1 <50.1 <50.1 <100000000000000000000000000000000000	U nics (DRO) Qualifier U U U U U U Qualifier S1+	50.1 (GC) <u>RL</u> 50.1 50.1 50.1 50.1 <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u> <u>50.1</u>	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/07/23 12:33 07/07/23 12:33 07/07/23 12:33 07/07/23 12:33 Prepared 07/07/23 12:33	07/12/23 09:47 Analyzed 07/12/23 07:55 07/12/23 07:55 07/12/23 07:55 07/12/23 07:55 Analyzed 07/12/23 07:55	1 Dil Fac 1 1 1 1 1 1 0 <i>Dil Fac</i> 1

Client: Ensolum Project/Site: Poker Lake Unit 147

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		E
880-30420-A-1-C MS	Matrix Spike	171 S1+	82		
880-30420-A-1-D MSD	Matrix Spike Duplicate	162 S1+	73		6
890-4896-1	FS01	168 S1+	75		
890-4896-1 MS	FS01	164 S1+	84		
890-4896-1 MSD	FS01	139 S1+	71		
890-4896-2	SW01	166 S1+	78		Ş
890-4896-3	SW02	176 S1+	86		
890-4896-4	SW03	198 S1+	80		C
890-4896-5	SW04	176 S1+	74		
890-4896-6	SW05	180 S1+	83		
890-4896-7	SW06	178 S1+	83		
890-4896-8	SW07	182 S1+	72		
890-4896-9	FS02	171 S1+	82		
890-4896-10	SW08	203 S1+	84		
890-4896-11	SW09	178 S1+	79		
890-4896-12	SW10	189 S1+	75		
890-4896-13	FS03	201 S1+	80		
LCS 880-57092/1-A	Lab Control Sample	158 S1+	79		
LCS 880-57125/1-A	Lab Control Sample	155 S1+	66 S1-		
LCSD 880-57092/2-A	Lab Control Sample Dup	182 S1+	105		
LCSD 880-57125/2-A	Lab Control Sample Dup	147 S1+	78		
MB 880-57092/5-A	Method Blank	97	70		
MB 880-57125/5-A	Method Blank	104	73		
Surrogate Legend					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4895-A-1-G MS	Matrix Spike	117	92
890-4895-A-1-H MSD	Matrix Spike Duplicate	133 S1+	104
890-4896-1	FS01	136 S1+	119
890-4896-1 MS	FS01	111	93
890-4896-1 MSD	FS01	118	95
890-4896-2	SW01	132 S1+	115
890-4896-3	SW02	131 S1+	112
890-4896-4	SW03	137 S1+	118
890-4896-5	SW04	142 S1+	123
890-4896-6	SW05	143 S1+	125
890-4896-7	SW06	139 S1+	115
890-4896-8	SW07	138 S1+	115
890-4896-9	FS02	140 S1+	121
890-4896-10	SW08	124	108
890-4896-11	SW09	132 S1+	111
890-4896-12	SW10	119	102

Page 196 of 268

Job ID: 890-4896-1 SDG: 03C1558252

Prep Type: Total/NA

Eurofins Carlsbad

Prep Type: Total/NA

Surrogate Summary

				Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits)	
.ab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)		ł
90-4896-13	FS03	137 S1+	119		
CS 880-57165/2-A	Lab Control Sample	106	93		
CS 880-57388/2-A	Lab Control Sample	96	88		
CSD 880-57165/3-A	Lab Control Sample Dup	114	101		
CSD 880-57388/3-A	Lab Control Sample Dup	104	95		
1B 880-57165/1-A	Method Blank	120	105		
1B 880-57388/1-A	Method Blank	121	110		
Surrogate Legend					
OTPH = o-Terphenyl					

Eurofins Carlsbad

Job ID: 890-4896-1 SDG: 03C1558252

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 57092

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Project/Site: Poker Lake Unit 147 Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57092/5-A

Matrix: Solid Analysis Batch: 57094

Client: Ensolum

Analysis Batch: 57094							Prep Batch	: 57092
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/06/23 13:00	07/06/23 18:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/06/23 13:00	07/06/23 18:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/06/23 13:00	07/06/23 18:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/06/23 13:00	07/06/23 18:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/06/23 13:00	07/06/23 18:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/06/23 13:00	07/06/23 18:10	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			07/06/23 13:00	07/06/23 18:10	1
1,4-Difluorobenzene (Surr)	70		70 - 130			07/06/23 13:00	07/06/23 18:10	1

Lab Sample ID: LCS 880-57092/1-A Matrix: Solid

Analysis Batch: 57094

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1379	*+	mg/Kg		138	70 - 130	
Toluene	0.100	0.1367	*+	mg/Kg		137	70 - 130	
Ethylbenzene	0.100	0.1396	*+	mg/Kg		140	70 - 130	
m-Xylene & p-Xylene	0.200	0.2820	*+	mg/Kg		141	70 - 130	
o-Xylene	0.100	0.1339	*+	mg/Kg		134	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: LCSD 880-57092/2-A

Matrix: Solid

Analysis Batch: 57094							Prep	Batch:	57092
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1607	*+	mg/Kg		161	70 - 130	15	35
Toluene	0.100	0.1435	*+	mg/Kg		143	70 - 130	5	35
Ethylbenzene	0.100	0.1503	*+	mg/Kg		150	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.3038	*+	mg/Kg		152	70 - 130	7	35
o-Xylene	0.100	0.1539	*+	mg/Kg		154	70 - 130	14	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	182	S1+	70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-4896-1 MS Matrix: Solid

Analysis Batch: 57094

Analysis Batch: 57094									Prep Batch: 57092
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00199	U *+	0.0994	0.1275		mg/Kg		128	70 - 130
Toluene	<0.00199	U *+	0.0994	0.1221		mg/Kg		123	70 - 130

Eurofins Carlsbad

Client Sample ID: FS01

Prep Type: Total/NA

Project/Site: Poker Lake Unit 147

Client: Ensolum

Job ID: 890-4896-1 SDG: 03C1558252

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

Analysis Batch: 57094 Sample	Analysis Batch: 57094 Sample Result Sample Qualifier Added Added MS MS MS Vite Qualifier Dist Qualifier MS MS MS Vite Qualifier Dist Qualifier MS	Lab Sample ID: 890-4896-1 M Matrix: Solid	S										Client Sam	-	
Sample Sample Spike MS MS MRec Limits Added Result Qualifier Added Result Qualifier Unit D %Rec Limits MRec Limits MRec Limits MRec Limits 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 70.130 <th>Sample Somple Solution MS Second Seco</th> <th></th>	Sample Somple Solution MS Second Seco														
Analyte Result Qualifier Added Result Qualifier Init D %Rec Limits Englenzano <0.00190 U+ 0.0094 0.1237 mg/Kg 1.24 70.130 x-Xylene & x-Journe <0.00190 U+ 0.0094 0.1273 mg/Kg 1.29 70.130 sxrogate MS MS MS MS S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S <td< th=""><th>Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Emploranzene <0.00199 U + 0.0994 0.1237 mg/Kg 124 70.130 70.130 >xXpiene <0.00199 U + 0.0994 0.1278 mg/Kg 129 70.130 Surrogate %Recovery Qualifier Limits 70.130 70.130 70.130 70.130 Lab Sample ID: 890-4896-1 MSD Karcine Sample <td< th=""><th>Analysis Datch. 57054</th><th>Sample</th><th>Samr</th><th>ماد</th><th>Snike</th><th>MS</th><th>MS</th><th></th><th></th><th></th><th></th><th></th><th>Jaten.</th><th>57052</th></td<></th></td<>	Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Emploranzene <0.00199 U + 0.0994 0.1237 mg/Kg 124 70.130 70.130 >xXpiene <0.00199 U + 0.0994 0.1278 mg/Kg 129 70.130 Surrogate %Recovery Qualifier Limits 70.130 70.130 70.130 70.130 Lab Sample ID: 890-4896-1 MSD Karcine Sample Sample <td< th=""><th>Analysis Datch. 57054</th><th>Sample</th><th>Samr</th><th>ماد</th><th>Snike</th><th>MS</th><th>MS</th><th></th><th></th><th></th><th></th><th></th><th>Jaten.</th><th>57052</th></td<>	Analysis Datch. 57054	Sample	Samr	ماد	Snike	MS	MS						Jaten.	57052
Ehybenzene	Ehythenzene 4 p-Xytene	Analyte	•			•			Unit		п	%Rec			
Marken & p-Xylene <0.00398	Mylene & p.Xylene <0.00398	-													
s-xylene < 0.0019 U** 0.0994 0.1278 mg/kg 129 70.130 Surrogate %Recovery Qualifier Limits 4Forminfluorobenzene (Surr) 164 51+ 70.130 70.130 Prop. Type: Total/N. Lab Sample ID: 890-4896-1 MSD Sample Sample Sample Sample MSD Nrep. Type: Total/N. Prop. Type: Total/N. Analyte Result Qualifier Added Result Qualifier Unit D %Rec RPD Limits Barzene <0.00199	b-xlylene 0.0994 0.1278 mg/Kg 129 70.130 Surrogate Hormofluorobenzene (Surr) %Recovery 2016 Quillier 84 Limits 70.130 Lab Sample ID: 890-4896-1 MSD Matrix: Solid Analysis Batch: 57094 Sample 84 Spike 0.0998 MSD 0.1228 MSD MSD Client Sample ID: F5 Prep Patch: 5704 Lab Sample ID: 890-4896-1 MSD Matrix: Solid Analysis Batch: 57094 Sample Sample 0.00998 Spike 0.1227 MSD 0.1224 MSD mg/Kg 123 70.130 Client Sample ID: F5 Prep Patch: 5704 Sample Sample 0.00199 U*+ 0.0998 0.1224 mg/Kg 123 70.130 0 Sample Sample 0.00199 U*+ 0.0998 0.1225 mg/Kg 124 70.130 0 Surrogate %Recovery Qualifier Limits MB MSD MSD MSD Client Sample ID: Method Bits Prep Batch: 57 Surrogate %Recovery Qualifier Limits MB MB Client Sample ID: Method Bits Prep Batch: 57 Matrix: Solid Analyte Result Qualifier Limits Client Sample ID: Method Bits Prep Batch: 57 MB MB <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
MS MS Surrogate %Recovery Qualifier Limits 4-Bromoliuorobenzene (Surr) 164 51+ 70.130 Lab Sample ID: 890-4896-1 MSD Sample Sample Sample Sample Sample Sample Sample Sample ID: 70.130 Matrix: Solid Analyte Result Qualifier Added Result Qualifier Unit D %Rec RPD Lim Benzene <0.00199	MS MS Surrogate %Recovery Qualifier Limits +Bromoliuorobenzene (Surr) 164 51+ 70-130 Lab Sample ID: 890-4896-1 MSD Client Sample ID: 800 Prep Type: Total/ Prep Batch: 5704 Analyte Result Qualifier Added Result Qualifier Unit D %Rec Imits RPD L Servene <0.00199 U*+ 0.0998 0.1273 mg/kg 128 70-130 0 Stringer Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD L Servene <0.00199														
Surrogate %Recovery Qualifier Limits L4-Bromofiluorobenzene (Surr) 164 51+ 70 - 130 Lab Sample ID: 890-4896-1 MSD Katrix: Solid Client Sample ID: FS0 Analysis Batch: 57094 Sample Sample Spike MSD MSD Prep Type: Total/N. Analyte Result Qualifier Added Result Qualifier Unit D %Rec RP Sample Sample Simple MSD MSD MSD WSD WRec RP Sample Sample C Outoning U+ 0.0998 0.1273 mg/Kg 128 70 . 130 0 3 Surgene <0.00199	Surrogate %Recovery Qualifier Limits H-Bromofiluorobenzene (Surr) 164 51+ 70.130 Lab Sample (D: 890-4396-1 MSD) Sample Sampl					0.0001	0.1210		ing/itg			120	101100		
Herromofluorobenzene (Surr) 164 S1+ 70-130 1,4-Difluorobenzene (Surr) 84 70-130 Client Sample ID: FS0 Matrix: Solid Sample Sample Spike MSD Prep Type: Total/N. Analysis Batch: 57094 Result Qualifier Added Result Qualifier MSD %Rec RPD Sample Sample Sample Spike MSD MSD %Rec RPD Lim Sample Sample Sample Spike MSD MSD %Rec RPD Lim Sample Sample OU '+ 0.0998 0.1224 mg/Kg 128 70.130 0 3 Sylene <0.00199	Haromofluorobenzene (Surr) 164 S1+ 70 - 130 1,4 - Difluorobenzene (Surr) 84 70 - 130 Client Sample ID: FG Matrix: Solid Analysis Batch: 57094 Sample Sample Spike MSD MSD Prep Type: Total/ Sanzene <000199				· •										
1,4-Difluorobenzene (Surr) 84 70.130 Lab Sample ID: 890-4896-1 MSD Matrix: Solid Analysis Batch: 57094 Client Sample ID: FSO Prep Type: Total/N. Brezene Sample Sample Sample Spike MSD MSD Frep Batch: 5709 Analyte Result Qualifier Added Result Qualifier Unit D %Rec Imits RPD Lim Benzene <0.00199	1,4-Difluorobenzene (Surr) 84 70 - 130 Lab Sample ID: 890-4896-1 MSD Matrix: Solid Analysis Batch: 57094 Client Sample ID: 850 Prep Type: Total/ Prep Batch: 570 Analyte Result Qualifier Added Result Qualifier Unit D %Rec 128 Limits RPD 124 Client Sample ID: 850 Prep Batch: 570 Analyte Result Qualifier Added Result Qualifier Unit D %Rec 128 Limits RPD 124 Client Sample ID: 850 Prep Batch: 570 Benzene <0.00199 U*+ 0.0998 0.1225 mg/Kg 124 70.130 0				ifier										
Lab Sample ID: 890-4896-1 MSD Matrix: Solid Analysis Batch: 57094 Client Sample ID: 800 Prep Type: Total/N. Prep Batch: 5709 Analyte Result Qualifier Added Result Qualifier MSD Skec RP Benzene <0.00199	Client Sample ID: 890-4896-1 MSD Matrix: Solid Analysis Batch: 57094 Client Sample ID: FS Prep Type: Total/ The Prep Batch: 570 Analyse Result Qualifier Added MSD MSD MSD Stree Fee Prep Type: Total/ Totuene Simple Sample MSD MSD MSD Stree Free Patch: 570 Analyte Result Qualifier Added Result Qualifier Unit D %Rec FRPD L Ethylbenzene <0.00199			51+											
Matrix: Solid Analysis Batch: 57094 Prop Type: Total/M. Prop Batch: 5709 Analyte Sample Sample Spike MSD MSD Spike MSD MSD Spike Result Qualifier Unit D %Rec RPD Limits RPD Result MB RPD Limits RPD Result Matrix: Solid Result Matrix: Solid MB	Matrix: Solid Analysis Batch: 57094 Sample Sample Spike MSD MSD Prep Type: Total/ Prep Batch: 5704/ Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD L Benzene <0.00199 U*+ 0.0998 0.1273 mg/Kg 123 70.130 0 Ehylbenzene <0.00199 U*+ 0.0998 0.1225 mg/Kg 124 70.130 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,4-Diffuorobenzene (Surr)	84			70 - 130									
Malysis Batch: 57094 Prep Batch: 5709 Analyte Result Qualifier Added Result Qualifier Unit D %Rec RP Benzene <0.00199	Malysis Batch: 57094 Prep Batch: 570 Analyte Result Qualifier Added Result Qualifier Added Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD L Benzene <0.00199	Lab Sample ID: 890-4896-1 M	SD										Client Sam	ple ID	: FS01
Sample Sample Spike MSD MSD %Rec RP Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RP Limits Benzene <0.00199	Sample Sample Spike MSD MSD %Rec F Analyte Result Qualifier Added Result Qualifier Unit D %Rec Iminits RPD L Benzene <0.00199	Matrix: Solid											Prep Ty	pe: To	otal/NA
Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limits Benzene <0.00199	Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD L Benzene <0.00199	Analysis Batch: 57094											Prep l	Batch:	57092
Benzene 0.0998 0.1273 mg/kg 128 70.130 0 3 Toluene <0.00199	Benzene < 0.00199 U *+ 0.0998 0.1273 mg/Kg 128 70.130 0 Toluene < 0.00199		Sample	Samp	ole	Spike	MSD	MSD					%Rec		RPD
Toluene <0.00199	Toluene <0.00199	Analyte	Result	Quali	ifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Ethylbenzene 0.00199 U*+ 0.0998 0.1235 mg/Kg 124 70.130 0 3 m-Xylene & p-Xylene 0.00398 U*+ 0.200 0.2473 mg/Kg 124 70.130 0 3 p-Xylene 0.00199 U*+ 0.0998 0.1275 mg/Kg 128 70.130 0 3 p-Xylene 0.00199 U*+ 0.0998 0.1275 mg/Kg 128 70.130 0 3 Surrogate MSD MSD 70.130 1 70.130 Lab Sample ID: MB 880-57125/5-A MB Prep Type: Total/N. Prep Type: Total/N. Prep Batch: 5712 Prep Type: Total/N. Prep Batch: 5712 07/07/23 09:28 07/07/23 11:39 0.0170 3 1:39	Ethylbenzene < 0.0998 0.1235 mg/Kg 124 70.130 0 m-Xylene & p-Xylene <0.00398	Benzene	<0.00199	U *+		0.0998	0.1273		mg/Kg			128	70 - 130	0	35
Markylene < 0.00398 U*+ 0.200 0.2473 mg/kg 124 70.130 0 3 o-Xylene < 0.00199 U*+ 0.0998 0.1275 mg/kg 128 70.130 0 3 Surrogate %Recovery Qualifier Limits mits 70.130 139 51+ 70.130 Lab Sample ID: MB 880-57125/5-A MB MB Client Sample ID: Method Blan Prep Type: Total/N. Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fa Benzene <0.00200 U 0.00200 mg/kg 07/07/23 09:28 07/07/23 11:39 Dil Fa Toluene <0.00200 U 0.00200 mg/kg 07/07/23 09:28 07/07/23 11:39 Dil Fa Sylenes <0.00200 U 0.00200 mg/kg 07/07/23 09:28 07/07/23 11:39 Sylenes <0.00200 U 0.00200 mg/kg 07/07/23 09:28 07/07/23 11:39 Sylenes <0.00200 U 0.00200 mg/kg 07/07/23 09:28 07/07/23 11:39 <td>m:Xylene & p-Xylene <0.00398 U*+ 0.200 0.2473 mg/Kg 124 70.130 0 o-Xylene <0.00199 U*+ 0.0998 0.1275 mg/Kg 128 70.130 0 Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 139 S1+ 70.130 70.130 1.4-Difluorobenzene (Surr) 71 70.130 Client Sample ID: Method Bla Matrix: Solid MB MB Client Sample ID: Method Bla Analysis Batch: 57118 MB MB D Prep Type: Total/ Prep Batch: 57 Benzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Toluene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Sylenes, Total <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Kylenes, Total <0.00400 U 0.00400 Mg/Kg 07/07/23 09:28</td> <td>Toluene</td> <td><0.00199</td> <td>U *+</td> <td></td> <td>0.0998</td> <td>0.1224</td> <td></td> <td>mg/Kg</td> <td></td> <td></td> <td>123</td> <td>70 - 130</td> <td>0</td> <td>35</td>	m:Xylene & p-Xylene <0.00398 U*+ 0.200 0.2473 mg/Kg 124 70.130 0 o-Xylene <0.00199 U*+ 0.0998 0.1275 mg/Kg 128 70.130 0 Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 139 S1+ 70.130 70.130 1.4-Difluorobenzene (Surr) 71 70.130 Client Sample ID: Method Bla Matrix: Solid MB MB Client Sample ID: Method Bla Analysis Batch: 57118 MB MB D Prep Type: Total/ Prep Batch: 57 Benzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Toluene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Sylenes, Total <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Kylenes, Total <0.00400 U 0.00400 Mg/Kg 07/07/23 09:28	Toluene	<0.00199	U *+		0.0998	0.1224		mg/Kg			123	70 - 130	0	35
Sylene < 0.00199 U*+ 0.0998 0.1275 mg/Kg 128 70.130 0 3 Surrogate MSD #Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 139 S1+ 70.130 Client Sample ID: Method Blan Prep Type: Total/N. Prep Batch: 5712 Lab Sample ID: MB 880-57125/5-A Matrix: Solid Analysis Batch: 57118 MB MB Client Sample ID: Method Blan Prep Type: Total/N. Prep Batch: 5712 Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fa Benzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dil Fa Sturbase 0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dil Fa Surrogate <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dil Fa Surrogate <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dil Fa Kylenes, Total <0.00400 U 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 Di	o-Xylene < 0.0199 U*+ 0.0998 0.1275 mg/Kg 128 70.130 0 Surrogate %Recovery Qualifier Limits - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	Ethylbenzene	<0.00199	U *+		0.0998	0.1235		mg/Kg			124	70 - 130	0	35
MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 139 \$1+ 70 - 130 1,4-Difluorobenzene (Surr) 71 70 - 130 Lab Sample ID: MB 880-57125/5-A Kartin: Solid Matrix: Solid MB Prep Type: Total/N. Analysis Batch: 57118 MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fa Benzene <0.00200	MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 139 \$1+ 70 - 130 1.4-Difluorobenzene (Surr) 71 70 - 130 Lab Sample ID: MB 880-57125/5-A Kesuit Analysis Batch: 57118 Client Sample ID: Method Black Analysis Batch: 57118 MB MB Prep Type: Total/ Prep Batch: 57/ Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Benzene <0.00200	m-Xylene & p-Xylene	<0.00398	U *+		0.200	0.2473		mg/Kg			124	70 - 130	0	35
Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 139 \$1+ 70.130 1,4-Difluorobenzene (Surr) 71 70.130 Lab Sample ID: MB 880-57125/5-A Matrix: Solid Kethod Blan Analysis Batch: 57118 Prep Type: Total/Nu MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fa Benzene <0.00200	Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 139 \$1+ 70 - 130 1,4-Difluorobenzene (Surr) 71 70 - 130 Lab Sample ID: MB 880-57125/5-A Matrix: Solid Analysis Batch: 57118 Kesut Qualifier RL Vint D Prep Type: Total/ Prep Batch: 57 Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Benzene <0.00200	o-Xylene	<0.00199	U *+		0.0998	0.1275		mg/Kg			128	70 - 130	0	35
4-Bromofluorobenzene (Surr) 139 \$1+ 70 - 130 1,4-Difluorobenzene (Surr) 71 70 - 130 Lab Sample ID: MB 880-57125/5-A Client Sample ID: Method Blan Matrix: Solid Prep Type: Total/N. Analysis Batch: 57118 MB Analyte Result Qualifier Result Qualifier RL Unit D Prepared Analyzed Dil Fa Benzene <0.00200	4-Bromofluorobenzene (Surr) 139 \$1+ 70.130 1.4-Difluorobenzene (Surr) 71 70.130 Lab Sample ID: MB 880-57125/5-A Matrix: Solid Analysis Batch: 57118 Client Sample ID: Method Black MB MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Benzene <0.00200		MSD	MSD											
1,4-Difluorobenzene (Surr) 71 70 - 130 Lab Sample ID: MB 880-57125/5-A Matrix: Solid Analysis Batch: 57118 Client Sample ID: Method Blan Prep Type: Total/N. Prep Batch: 5712 MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fa Benzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 0 Toluene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 0 Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 0 -xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 xylenes, Total 0.00400 U 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 Kylenes, Total 0.00400 U 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 Surrogate 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 4-Bromofluorobenzene (Surrr) </th <th>1,4-Diffuorobenzene (Surr) 71 70 - 130 Lab Sample ID: MB 880-57125/5-A Matrix: Solid Analysis Batch: 57118 Client Sample ID: Method Bla Prep Type: Total/ Prep Batch: 571 MB MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Benzene <0.00200</th> U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Di Toluene <0.00200	1,4-Diffuorobenzene (Surr) 71 70 - 130 Lab Sample ID: MB 880-57125/5-A Matrix: Solid Analysis Batch: 57118 Client Sample ID: Method Bla Prep Type: Total/ Prep Batch: 571 MB MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Benzene <0.00200	Surrogate	%Recovery	Quali	ifier	Limits									
Lab Sample ID: MB 880-57125/5-A Client Sample ID: Method Blan Matrix: Solid Prep Type: Total/Nu Analysis Batch: 57118 MB MB Malyte Result Qualifier RL Unit D Prepared Analyzed DII Fa Benzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 DII Fa Toluene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 DII Fa Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 o-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 o-Xylenes, Total <0.00400 U 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 MB MB MB MB MB MB MB MB MB Sturrogate MB MB MB MB DI Fa Sturrogate MB DI Fa MB MB	Lab Sample ID: MB 880-57125/5-A Client Sample ID: Method Bla Matrix: Solid Prep Type: Total/ Analysis Batch: 57118 MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Benzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Toluene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 o-Xylene & p-Xylene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 xylenes, Total <0.00400 U 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 MB MB MB MB MB MB MB D Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil MB MB MB MB Origon 130 Origon 28 Origon 28 Origon 28 Origon 28 Origon 28	4-Bromofluorobenzene (Surr)	139	S1+		70 - 130									
Matrix: Solid Analysis Batch: 57118 Prep Type: Total/Nu Prep Batch: 5712 MB MB MB Prep Batch: 5712 Prep Batch: 5712 Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fa Benzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dil Fa Benzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dil Fa Storepare <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dil Fa Surgate <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dil Fa Surgate <0.00200 U 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 B MB Malyzed Mil Fa	Matrix: Solid Analysis Batch: 57118 Prep Type: Total/ Prep Batch: 571 MB MB MB Prep Batch: 571 Analyte Result Qualifier RL Unit D Prepared Analyzed Dit Benzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dit Toluene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dit Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dit o-Xylene & p-Xylene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dit xylenes, Total Ø Ø Prepared Analyzed Dit MB MB MB MB Dit Dit Dit Dit MB MB MB Dit Dit Dit Dit MB MB Dit Dit Dit Dit Dit<	1,4-Difluorobenzene (Surr)	71			70 - 130									
Matrix: Solid Analysis Batch: 57118 Prep Type: Total/Nu Prep Batch: 5712 MB MB MB Prep Batch: 5712 Prep Batch: 5712 Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fa Benzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dil Fa Benzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dil Fa Storepare <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dil Fa Surgate <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Dil Fa Surgate <0.00200 U 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 B MB Malyzed Mil Fa	Matrix: Solid Analysis Batch: 57118 Prep Type: Total/ Prep Batch: 571 MB MB MB Prep Batch: 571	Lah Sample ID: MB 880-5712	5/5-0									lient Sa	ample ID: M	lethod	Blank
Malysis Batch: 57118 MB MB Malyte Result Qualifier RL Unit D Prepared Analyzed Dil Fa Benzene <0.00200	Malysis Batch: 57118 MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dit Benzene <0.00200														
MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fa Benzene <0.00200	MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dit Benzene <0.00200														
Benzene <0.00200	Benzene <0.00200	,		мв	мв										
Toluene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Ethylbenzene <0.00200	Toluene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Ethylbenzene <0.00200	Analyte	Re	sult	Qualifier	RL		Unit		D	Pre	epared	Analyze	d	Dil Fac
Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 m-Xylene & p-Xylene <0.00400	Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 m-Xylene & p-Xylene <0.00400		<0.00	200	U	0.00200		mg/k	(g	_	07/07	/23 09:28			1
Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 m-Xylene & p-Xylene <0.00400	Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 m-Xylene & p-Xylene <0.00400	Toluene	<0.00	200	U	0.00200		-	-		07/07	/23 09:28	07/07/23 1	1:39	1
M-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 o-Xylene <0.00200	Mm-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 o-Xylene <0.00200	Ethylbenzene	<0.00	200	U	0.00200					07/07	/23 09:28	07/07/23 1	1:39	1
o-Xylene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Xylenes, Total <0.00400 U 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 MB MB MB Surrogate Prepared Analyzed Dil Fa 4-Bromofiluorobenzene (Surr) 104 70 - 130 70 - 130 07/07/23 09:28 07/07/23 11:39	o-Xylene <0.00200 U 0.00200 mg/Kg 07/07/23 09:28 07/07/23 11:39 Xylenes, Total <0.00400	m-Xylene & p-Xylene	<0.00	400	U	0.00400					07/07	/23 09:28	07/07/23 1	1:39	1
Xylenes, Total <0.00400 U 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 MB MB MB Example 104 MB Prepared Analyzed Dil Fa 4-Bromofluorobenzene (Surr) 104 70 - 130 70 - 130 07/07/23 09:28 07/07/23 11:39	Xylenes, Total <0.00400 U 0.00400 mg/Kg 07/07/23 09:28 07/07/23 11:39 MB		<0.00	200	U	0.00200					07/07	/23 09:28	07/07/23 1	1:39	1
Surrogate%RecoveryQualifierLimitsPreparedAnalyzedDil Fa4-Bromofluorobenzene (Surr)10470 - 13007/07/23 09:2807/07/23 11:3907/07/23 11:39	Surrogate%RecoveryQualifierLimitsPreparedAnalyzedDil4-Bromofluorobenzene (Surr)10470 - 13007/07/23 09:2807/07/23 11:39Dil	Xylenes, Total	<0.00	400	U	0.00400		mg/k	Κg		07/07	/23 09:28	07/07/23 1	1:39	1
Surrogate%RecoveryQualifierLimitsPreparedAnalyzedDil Fa4-Bromofluorobenzene (Surr)10470 - 13007/07/23 09:2807/07/23 11:3907/07/23 11:39	Surrogate%RecoveryQualifierLimitsPreparedAnalyzedDil4-Bromofluorobenzene (Surr)10470 - 13007/07/23 09:2807/07/23 11:39Dil			MR	MB										
4-Bromofluorobenzene (Surr) 104 70 - 130 07/07/23 09:28 07/07/23 11:39	4-Bromofluorobenzene (Surr) 104 70 - 130 07/07/23 09:28 07/07/23 11:39	Surrogate				Limits					Pri	epared	Analyze	d	Dil Fac
				<u> </u>								-			211140

Analysis Batch: 57118

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1135		mg/Kg		114	70 - 130	
Toluene	0.100	0.1138		mg/Kg		114	70 - 130	
Ethylbenzene	0.100	0.1092		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.2196		mg/Kg		110	70 - 130	

Eurofins Carlsbad

Prep Batch: 57125

Lab Sample ID: LCS 880-57125/1-A

Lab Sample ID: LCSD 880-57125/2-A

QC Sample Results

LCS LCS

LCSD LCSD

0.1208

0.1127

0.1177

0.2362

0.1176

Result Qualifier

Qualifier

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

119

D

Result

0.1185

Spike

Added

0.100

Limits

70 - 130 70 - 130

Spike

Added

0.100

0.100

0.100

0.200

0.100

Client: Ensolum Project/Site: Poker Lake Unit 147

Matrix: Solid

Analyte

o-Xylene

Surrogate

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 57118

4-Bromofluorobenzene (Surr)

Analysis Batch: 57118

1,4-Difluorobenzene (Surr)

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

LCS LCS

155 S1+

66 S1-

LCSD LCSD

%Recovery Qualifier

SDG: 03C1558252 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA Prep Batch: 57125 %Rec Limits 70 - 130

5						
ç		I Sample ype: Tot	ab Contro_ Prep T	ple ID: I	nt Sam	Clier
		Batch:				
	RPD		%Rec			
	Limit	RPD	Limits	%Rec	D	t
	35	6	70 - 130	121		Kg
	35	1	70 - 130	113		Kg
	35	7	70 - 130	118		Kg
	35	7	70 - 130	118		Kg
	35	1	70 - 130	118		Kg

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 57125

Client Sample ID: Matrix Spike Duplicate

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 147 S1+ 70 - 130 1,4-Difluorobenzene (Surr) 78 70 - 130 Lab Sample ID: 880-30420-A-1-C MS Matrix: Solid Analysis Batch: 57118 MS MS %Rec Sample Sample Spike Result Qualifier Result Qualifier Added Analyte Unit D %Rec Limits Benzene < 0.00198 U 0.0994 0.1012 mg/Kg 102 70 - 130 Toluene <0.00198 U 0.0994 0.09116 mg/Kg 92 70 - 130 Ethylbenzene <0.00198 U 0.0994 0.07584 mg/Kg 76 70 - 130 m-Xylene & p-Xylene <0.00396 U 0.199 0.1604 mg/Kg 81 70 - 130 o-Xylene <0.00198 U 0.0994 0.08102 mg/Kg 82 70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	171	S1+	70 _ 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: 880-30420-A-1-D MSD Matrix: Solid nalveis Batch: 57118

Analysis Batch: 57118									Prep	Batch:	57125
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	< 0.00198	U	0.0998	0.1045		mg/Kg		105	70 - 130	3	35
Toluene	<0.00198	U	0.0998	0.1022		mg/Kg		102	70 - 130	11	35
Ethylbenzene	<0.00198	U	0.0998	0.09535		mg/Kg		96	70 - 130	23	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1895		mg/Kg		95	70 - 130	17	35
o-Xylene	<0.00198	U	0.0998	0.09564		mg/Kg		96	70 - 130	17	35

Eurofins Carlsbad

Prep Type: Total/NA

QC Sample Results

Client: Ensolum

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

Lab Sample ID: 880-30420-A-1 Matrix: Solid	-D MSD							Clie	nt Sa	ample ID:	Matrix Spik Prep Typ		
Analysis Batch: 57118											Prep B	atch:	5/12
	MSD	MSD)										
Surrogate	%Recovery		lifier	Limits									
4-Bromofluorobenzene (Surr)		S1+		70 - 130									
1,4-Difluorobenzene (Surr)	73			70 - 130									
lethod: 8015B NM - Diese	I Range Or	gar	ics (DR	O) (GC)									
Lab Sample ID: MB 880-57165	/ 1-A									Client Sa	ample ID: Me	thod	Blanl
Matrix: Solid											Ргер Тур	e: To	tal/N/
Analysis Batch: 57372											Prep B	atch:	5716
		MB	MB										
Analyte	Re	esult	Qualifier	RL		Uni	t	D	Р	repared	Analyzed		Dil Fa
Gasoline Range Organics	<	50.0	U	50.0		mg/	Kg	_	07/0	7/23 12:33	07/11/23 22:	05	
(GRO)-C6-C10													
Diesel Range Organics (Over	<	50.0	U	50.0		mg/	Kg		07/0	07/23 12:33	07/11/23 22:	05	
C10-C28) Oll Range Organics (Over C28-C36)	2	50.0	U	50.0		mg/	Ka		07/0	7/23 12:33	07/11/23 22:	15	
Total TPH		50.0		50.0		mg/)7/23 12:33	07/11/23 22:		
		.00.0	5	50.0		mg/			0110	1720 12.00	01/11/20 22.		
		MB	MB										
Surrogate	%Reco	very	Qualifier	Limits					P	Prepared	Analyzed		Dil Fa
1-Chlorooctane		120		70 - 130					07/0	07/23 12:33	07/11/23 22:	05	
o-Terphenyl		105		70 - 130					07/0	07/23 12:33	07/11/23 22:	05	
Lab Sample ID: LCS 880-5716								~	lion	Comple	ID: Lab Con		omol
Matrix: Solid	5/2-A							C	nem	Sample	Prep Typ		
Analysis Batch: 57372				Spike	LCS	LCS					Prep B %Rec	aten.	57 10
Analyte				Added		Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	980.1	Quanner	mg/Kg			98	70 - 130		
(GRO)-C6-C10				1000	000.1		mg/rtg			00	10 - 100		
Diesel Range Organics (Over				1000	999.5		mg/Kg			100	70 - 130		
C10-C28)													
	LCS	105											
Surrogate	%Recovery			Limits									
1-Chlorooctane	106	Quu		70 - 130									
o-Terphenyl	93			70 - 130									
· •													
Lab Sample ID: LCSD 880-571	65/3-A						С	lient	Sam	nple ID: L	ab Control S	ampl	e Duj
Matrix: Solid											Prep Typ	e: To	tal/N/
Analysis Batch: 57372											Prep B	atch:	5716
				Spike	LCSD	LCSD					%Rec		RP
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Gasoline Range Organics				1000	912.5		mg/Kg		_	91	70 - 130	7	2
(GRO)-C6-C10													
Diesel Range Organics (Over				1000	906.2		mg/Kg			91	70 - 130	10	2
C10-C28)													
	LCSD	LCS	D										
Surrogate	%Recovery	Qua	lifier	Limits									
				70 400									

Job ID: 890-4896-1 SDG: 03C1558252

Eurofins Carlsbad

1-Chlorooctane

o-Terphenyl

70 - 130

70 - 130

114

QC Sample Results

Client: Ensolum Project/Site: Poker Lake Unit 147

Diesel Range Organics (Over

C10-C28)

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

Job ID: 890-4896-1 SDG: 03C1558252

ethod: 8015B NM - Diesel R		3			(····)							
.ab Sample ID: 890-4895-A-1-G N /atrix: Solid	NS										Client	Sample ID: Prep T		
Analysis Batch: 57372													Batch:	
-	Sample	Sam	ple	Spike		MS	MS					%Rec		
Analyte	Result	Qua	lifier	Added	R	lesult	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics	<49.9	U F2		999	ł	852.1		mg/Kg			81	70 - 130		
GRO)-C6-C10														
Diesel Range Organics (Over 210-C28)	<49.9	U		999		1069		mg/Kg			105	70 - 130		
	MS	MS												
Surrogate	%Recovery	Qua	lifier	Limits										
-Chlorooctane	117			70 - 130										
-Terphenyl	92			70 - 130										
_ab Sample ID: 890-4895-A-1-H N	//SD								Clie	nt Sa	ample ID	: Matrix Sp	ike Du	plicate
Matrix: Solid												Prep T	ype: To	tal/NA
Analysis Batch: 57372													Batch:	
	Sample	Sam	ple	Spike		MSD	MSD					%Rec		RPD
nalyte	Result	Qua	lifier	Added	R	esult	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Basoline Range Organics	<49.9	U F2		1000		1050	F2	mg/Kg			101	70 - 130	21	20
GRO)-C6-C10														
iesel Range Organics (Over 10-C28)	<49.9	U		1000		1234		mg/Kg			121	70 - 130	14	20
	MSD	MSD												
urrogate	%Recovery	Qua		Limits										
-Chlorooctane	133			70 - 130										
-Terphenyl	100	07.		70 - 130 70 - 130										
, leiphenyr				101100										
_ab Sample ID: MB 880-57388/1-/	Α										Client S	ample ID: I	Nethod	Blank
Matrix: Solid													ype: To	
Analysis Batch: 57372													Batch:	
		мв	мв											
nalyte	R	esult	Qualifier		RL		Unit		D	P	repared	Analyz	ed	Dil Fac
Gasoline Range Organics	<	50.0	U		50.0		mg/Kg	1		07/1	1/23 10:04	07/11/23 1	10:21	1
GRO)-C6-C10							5 0							
Diesel Range Organics (Over 210-C28)	<	\$0.0	U		50.0		mg/Kg	1		07/1	1/23 10:04	07/11/23 1	10:21	1
) Oll Range Organics (Over C28-C36)	<	50.0	U		50.0		mg/Kg	1		07/1	1/23 10:04	07/11/23 1	10:21	1
otal TPH	<	50.0	U		50.0		mg/Kg	1		07/1	1/23 10:04	07/11/23 1	10:21	1
		ΜВ	MB											
Surrogate	%Reco	very	Qualifier	Limit	ts					P	repared	Analyz	ed	Dil Fac
-Chlorooctane		121		70 - 1	130					07/1	1/23 10:04	07/11/23	10:21	1
-Terphenyl		110		70 - 1	130					07/1	1/23 10:04	07/11/23	10:21	1
ab Sample ID: LCS 880-57388/2-	- A								C	lient	Sample	ID: Lab Co	ontrol S	ample
Aatrix: Solid											Sample	Prep T		
Analysis Batch: 57372													Batch:	
analysis baton. 3/3/2				Spike		105	LCS					%Rec	Daton.	57500
Analyte				Added	D		Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000 -		1062		mg/Kg			106	70 - 130		
GRO)-C6-C10				1000		1002		шулу			100	10 - 100		
				1000		0100		111			01	70 400		

912.9

mg/Kg

91

70 - 130

Lab Sample ID: LCS 880-57388/2-A

Lab Sample ID: LCSD 880-57388/3-A

QC Sample Results

Client: Ensolum Project/Site: Poker Lake Unit 147

Matrix: Solid

Surrogate

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

1-Chlorooctane

Matrix: Solid

Analysis Batch: 57372

Analysis Batch: 57372

Gasoline Range Organics (GRO)-C6-C10

Diesel Range Organics (Over

Method: 8015B NM - Diesel Range Or

LCS

96

88

LCSD

104

95

%Recovery

%Recovery

							Job I	D: 890-4	1896-1	
							SDG	: 03C15	58252	
)rganics (C	0RO) (GC) (Continue	ed)							
					Client	Sample	e ID: Lab C	ontrol S	amplo	
					Chem	Jampi		бингог З Гуре: То		
								Batch:		
										5
S LCS										
Qualifier	Limits									
5 3	70 ₋ 130 70 - 130									
2	70 - 130									7
				Clier	nt Sam	ple ID:	Lab Contro			
								Гуре: То		8
								Batch:		
	Spike	LCSD					%Rec		RPD	9
	Added		Qualifier	Unit	<u>D</u>	%Rec	Limits	RPD	Limit	
	1000	976.2		mg/Kg		98	70 - 130	8	20	
	1000	840.1		mg/Kg		84	70 - 130	8	20	
LCSD										
Qualifier	Limits									
4	70 - 130									40
5	70 - 130									13
							Client Sa Prep 1	mple ID Type: To		

Lab Sample ID: 890-4896-1 MS	
Matrix: Solid	
Analysis Batch: 57372	

Analysis Batch: 57372									Prep	Batch: 57388
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	865.7		mg/Kg		84	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1088		mg/Kg		106	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 890-4896-1 MSD Matrix: Solid Analysis Batch: 57372 Spike MSD MSD Sample Sample Result Qualifier Analyte Added Result Qualifier Unit D <49.8 U 999 915.8 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 999 1132 mg/Kg C10-C28) MSD MSD %Recovery Qualifier Surrogate l imite

ourrogate	/onceevery	Quanner	Linits
1-Chlorooctane	118		70 - 130
o-Terphenyl	95		70 - 130

Client Sample ID: FS01

%Rec

Limits

70 - 130

70 - 130

%Rec

89

110

Prep Type: Total/NA

Prep Batch: 57388

RPD

6

4

RPD

Limit

20

20

Page 203 of 268

Inh ID: 000 4006 4

Client: Ensolum

QC Sample Results

Job ID: 890-4896-1 SDG: 03C1558252

Project/Site: Poker Lake Unit 147 Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57031/1-A Matrix: Solid Analysis Batch: 57192											Client	Sample ID: Prep	Method Type: S	
Analysis Batch. of 192		мв	мв											
Analyte	R	esult	Qualifier		RL		U	nit	D	Р	repared	Analyz	zed	Dil Fac
Chloride	<	<5.00	U		5.00		m	g/Kg				07/07/23	19:36	
Lab Sample ID: LCS 880-57031/2-A									С	lient	Sample	e ID: Lab C	ontrol S	ample
Matrix: Solid													Type: S	
Analysis Batch: 57192														
				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifie	er Unit		D	%Rec	Limits		
Chloride				250		254.2		mg/Kg			102	90 - 110		
Lab Sample ID: LCSD 880-57031/3-/	4							с	lient	Sam	ple ID:	Lab Contro	ol Sampl	le Dup
Matrix: Solid											· · · ·		Type: S	
Analysis Batch: 57192														
				Spike		LCSD	LCSD					%Rec		RPD
Analyte				Added		Result	Qualifie	er Unit		D	%Rec	Limits	RPD	Limi
Chloride				250		256.0		mg/Kg			102	90 - 110	1	20
Lab Sample ID: 890-4896-7 MS												Client Sar	nple ID:	SWO
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 57192														
	Sample	Samp	ole	Spike		MS	MS					%Rec		
Analyte	Result	Quali	ifier	Added		Result	Qualifie	er Unit		D	%Rec	Limits		
Chloride	87.2			252		345.5		mg/Kg			103	90 - 110		
Lab Sample ID: 890-4896-7 MSD												Client Sar	nple ID:	SWO
Matrix: Solid													· Type: S	
Analysis Batch: 57192														
	Sample	Samp	ole	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Quali	ifier	Added		Result	Qualifie	er Unit		D	%Rec	Limits	RPD	Limi
Chloride	87.2	-		252		345.3		mg/Kg			103	90 - 110	0	20

Client: Ensolum Project/Site: Poker Lake Unit 147

SDG: 03C1558252

GC VOA

Prep Batch: 57092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4896-1	FS01	Total/NA	Solid	5035	
890-4896-2	SW01	Total/NA	Solid	5035	
890-4896-3	SW02	Total/NA	Solid	5035	
890-4896-4	SW03	Total/NA	Solid	5035	
890-4896-5	SW04	Total/NA	Solid	5035	
890-4896-6	SW05	Total/NA	Solid	5035	
890-4896-7	SW06	Total/NA	Solid	5035	
890-4896-8	SW07	Total/NA	Solid	5035	
890-4896-9	FS02	Total/NA	Solid	5035	
890-4896-10	SW08	Total/NA	Solid	5035	
890-4896-11	SW09	Total/NA	Solid	5035	
890-4896-12	SW10	Total/NA	Solid	5035	
MB 880-57092/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57092/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57092/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4896-1 MS	FS01	Total/NA	Solid	5035	
890-4896-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 57094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4896-1	FS01	Total/NA	Solid	8021B	57092
890-4896-2	SW01	Total/NA	Solid	8021B	57092
890-4896-3	SW02	Total/NA	Solid	8021B	57092
890-4896-4	SW03	Total/NA	Solid	8021B	57092
890-4896-5	SW04	Total/NA	Solid	8021B	57092
890-4896-6	SW05	Total/NA	Solid	8021B	57092
890-4896-7	SW06	Total/NA	Solid	8021B	57092
890-4896-8	SW07	Total/NA	Solid	8021B	57092
890-4896-9	FS02	Total/NA	Solid	8021B	57092
890-4896-10	SW08	Total/NA	Solid	8021B	57092
890-4896-11	SW09	Total/NA	Solid	8021B	57092
890-4896-12	SW10	Total/NA	Solid	8021B	57092
MB 880-57092/5-A	Method Blank	Total/NA	Solid	8021B	57092
LCS 880-57092/1-A	Lab Control Sample	Total/NA	Solid	8021B	57092
LCSD 880-57092/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57092
890-4896-1 MS	FS01	Total/NA	Solid	8021B	57092
890-4896-1 MSD	FS01	Total/NA	Solid	8021B	57092

Analysis Batch: 57118

MB 880-57125/5-A

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4896-13	FS03	Total/NA	Solid	8021B	57125
MB 880-57125/5-A	Method Blank	Total/NA	Solid	8021B	57125
LCS 880-57125/1-A	Lab Control Sample	Total/NA	Solid	8021B	57125
LCSD 880-57125/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57125
880-30420-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	57125
880-30420-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57125
Prep Batch: 57125					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4896-13	FS03	Total/NA	Solid	5035	

Eurofins Carlsbad

5

8 9

Released to Imaging: 1/5/2024 3:07:17 PM

Method Blank

Total/NA

Solid

Client: Ensolum Project/Site: Poker Lake Unit 147

GC VOA (Continued)

Prep Batch: 57125 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
LCS 880-57125/1-A	Lab Control Sample	Total/NA	Solid	5035		
LCSD 880-57125/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		5
880-30420-A-1-C MS	Matrix Spike	Total/NA	Solid	5035		
880-30420-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		6
Analysis Potoby 57424						
Analysis Batch: 57134 - Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	7
Lab Sample ID		Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch	7 8
-	Client Sample ID				Prep Batch	7 8
Lab Sample ID 890-4896-1	Client Sample ID FS01	Total/NA	Solid	Total BTEX	Prep Batch	7 8 9
890-4896-1 890-4896-2	Client Sample ID FS01 SW01	Total/NA Total/NA	Solid Solid	Total BTEX Total BTEX	Prep Batch	7 8 9

Total/NA

Total/NA

Total/NA

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Total BTEX

FS02	Total/NA
SW08	Total/NA
SW09	Total/NA
SW10	Total/NA
FS03	Total/NA

SW05

SW06

SW07

GC Semi VOA

890-4896-6

890-4896-7

890-4896-8

890-4896-9

890-4896-10

890-4896-11

890-4896-12

890-4896-13

Prep Batch: 57165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4896-4	SW03	Total/NA	Solid	8015NM Prep	
890-4896-5	SW04	Total/NA	Solid	8015NM Prep	
890-4896-6	SW05	Total/NA	Solid	8015NM Prep	
890-4896-7	SW06	Total/NA	Solid	8015NM Prep	
890-4896-8	SW07	Total/NA	Solid	8015NM Prep	
890-4896-9	FS02	Total/NA	Solid	8015NM Prep	
890-4896-10	SW08	Total/NA	Solid	8015NM Prep	
890-4896-11	SW09	Total/NA	Solid	8015NM Prep	
890-4896-12	SW10	Total/NA	Solid	8015NM Prep	
890-4896-13	FS03	Total/NA	Solid	8015NM Prep	
MB 880-57165/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57165/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57165/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4895-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4895-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 57372

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4896-1	FS01	Total/NA	Solid	8015B NM	57388
890-4896-2	SW01	Total/NA	Solid	8015B NM	57388
890-4896-3	SW02	Total/NA	Solid	8015B NM	57388
890-4896-4	SW03	Total/NA	Solid	8015B NM	57165
890-4896-5	SW04	Total/NA	Solid	8015B NM	57165
890-4896-6	SW05	Total/NA	Solid	8015B NM	57165
890-4896-7	SW06	Total/NA	Solid	8015B NM	57165
890-4896-8	SW07	Total/NA	Solid	8015B NM	57165

Eurofins Carlsbad

Page 206 of 268

Job ID: 890-4896-1

SDG: 03C1558252

Client: Ensolum Project/Site: Poker Lake Unit 147

GC Semi VOA (Continued)

Analysis Batch: 57372 (Continued)

FS01

FS01

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	1
890-4896-9	FS02	Total/NA	Solid	8015B NM	
890-4896-10	SW08	Total/NA	Solid	8015B NM	
890-4896-11	SW09	Total/NA	Solid	8015B NM	
890-4896-12	SW10	Total/NA	Solid	8015B NM	
890-4896-13	FS03	Total/NA	Solid	8015B NM	
MB 880-57165/1-A	Method Blank	Total/NA	Solid	8015B NM	
MB 880-57388/1-A	Method Blank	Total/NA	Solid	8015B NM	
LCS 880-57165/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	
LCS 880-57388/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	
LCSD 880-57165/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	
LCSD 880-57388/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	
890-4895-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	
890-4895-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	

Prep Batch: 57388

890-4896-1 MS

890-4896-1 MSD

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4896-1	FS01	Total/NA	Solid	8015NM Prep	
890-4896-2	SW01	Total/NA	Solid	8015NM Prep	
890-4896-3	SW02	Total/NA	Solid	8015NM Prep	
MB 880-57388/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57388/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57388/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4896-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-4896-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Total/NA

Total/NA

Solid

Solid

8015B NM

8015B NM

Analysis Batch: 57435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-4896-1	FS01	Total/NA	Solid	8015 NM	
890-4896-2	SW01	Total/NA	Solid	8015 NM	
890-4896-3	SW02	Total/NA	Solid	8015 NM	
890-4896-4	SW03	Total/NA	Solid	8015 NM	
890-4896-5	SW04	Total/NA	Solid	8015 NM	
890-4896-6	SW05	Total/NA	Solid	8015 NM	
890-4896-7	SW06	Total/NA	Solid	8015 NM	
890-4896-8	SW07	Total/NA	Solid	8015 NM	
890-4896-9	FS02	Total/NA	Solid	8015 NM	
890-4896-10	SW08	Total/NA	Solid	8015 NM	
890-4896-11	SW09	Total/NA	Solid	8015 NM	
890-4896-12	SW10	Total/NA	Solid	8015 NM	
890-4896-13	FS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 57031

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4896-1	FS01	Soluble	Solid	DI Leach	
890-4896-2	SW01	Soluble	Solid	DI Leach	
890-4896-3	SW02	Soluble	Solid	DI Leach	
890-4896-4	SW03	Soluble	Solid	DI Leach	

Job ID: 890-4896-1

Page 207 of 268

SDG: 03C1558252

57165

57165

57165

57388

57165

57388

57165

57388

57165

57165

57388

Client: Ensolum Project/Site: Poker Lake Unit 147

HPLC/IC (Continued)

Leach Batch: 57031 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4896-5	SW04	Soluble	Solid	DI Leach	
890-4896-6	SW05	Soluble	Solid	DI Leach	
890-4896-7	SW06	Soluble	Solid	DI Leach	
890-4896-8	SW07	Soluble	Solid	DI Leach	
890-4896-9	FS02	Soluble	Solid	DI Leach	
890-4896-10	SW08	Soluble	Solid	DI Leach	
890-4896-11	SW09	Soluble	Solid	DI Leach	
890-4896-12	SW10	Soluble	Solid	DI Leach	
890-4896-13	FS03	Soluble	Solid	DI Leach	
MB 880-57031/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57031/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57031/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4896-7 MS	SW06	Soluble	Solid	DI Leach	
890-4896-7 MSD	SW06	Soluble	Solid	DI Leach	

Analysis Batch: 57192

890-4896-11	SW09	Soluble	Solid	DI Leach	_
890-4896-12	SW10	Soluble	Solid	DI Leach	
890-4896-13	FS03	Soluble	Solid	DI Leach	
MB 880-57031/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57031/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57031/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4896-7 MS	SW06	Soluble	Solid	DI Leach	
890-4896-7 MSD	SW06	Soluble	Solid	DI Leach	
Analysis Batch: 57192					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4896-1	FS01	Soluble	Solid	300.0	57031
890-4896-2	SW01	Soluble	Solid	300.0	57031
890-4896-3	SW02	Soluble	Solid	300.0	57031
890-4896-4	SW03	Soluble	Solid	300.0	57031
890-4896-5	SW04	Soluble	Solid	300.0	57031
890-4896-6	SW05	Soluble	Solid	300.0	57031
890-4896-7	SW06	Soluble	Solid	300.0	57031
890-4896-8	SW07	Soluble	Solid	300.0	57031
890-4896-9	FS02	Soluble	Solid	300.0	57031
890-4896-10	SW08	Soluble	Solid	300.0	57031
890-4896-11	SW09	Soluble	Solid	300.0	57031
890-4896-12	SW10	Soluble	Solid	300.0	57031
890-4896-13	FS03	Soluble	Solid	300.0	57031
MB 880-57031/1-A	Method Blank	Soluble	Solid	300.0	57031
LCS 880-57031/2-A	Lab Control Sample	Soluble	Solid	300.0	57031
LCSD 880-57031/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57031
890-4896-7 MS	SW06	Soluble	Solid	300.0	57031
890-4896-7 MSD	SW06	Soluble	Solid	300.0	57031

Job ID: 890-4896-1 SDG: 03C1558252

5 6

9

Job ID: 890-4896-1 SDG: 03C1558252

Lab Sample ID: 890-4896-1 Matrix: Solid

Date Collected: 06/29/23 09:15 Date Received: 07/03/23 10:15

Client Sample ID: FS01

Project/Site: Poker Lake Unit 147

Client: Ensolum

Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57092	07/06/23 13:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57094	07/06/23 18:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57134	07/07/23 10:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			57435	07/11/23 18:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57388	07/11/23 10:04	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/11/23 13:09	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 20:22	СН	EET MID

Client Sample ID: SW01

Date Collected: 06/29/23 12:45

Date Received: 07/03/23 10:15

	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	57092	07/06/23 13:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57094	07/06/23 19:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57134	07/07/23 10:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			57435	07/11/23 18:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	57388	07/11/23 10:04	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/11/23 14:18	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 20:37	СН	EET MID

Client Sample ID: SW02

Date Collected: 06/29/23 12:55

Date Received: 07/03/23 10:15

	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	57092	07/06/23 13:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57094	07/06/23 19:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57134	07/07/23 10:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			57435	07/11/23 18:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	57388	07/11/23 10:04	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/11/23 14:41	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 20:43	СН	EET MID

Client Sample ID: SW03 Date Collected: 06/29/23 13:05 Date Received: 07/03/23 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57092	07/06/23 13:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57094	07/06/23 19:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57134	07/07/23 10:09	SM	EET MID

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-4896-3

Lab Sample ID: 890-4896-4

Lab Sample ID: 890-4896-2

Matrix: Solid

Matrix: Solid

Job ID: 890-4896-1 SDG: 03C1558252

Lab Sample ID: 890-4896-4 Matrix: Solid

Lab Sample ID: 890-4896-5

Lab Sample ID: 890-4896-6

Lab Sample ID: 890-4896-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

Date Collected: 06/29/23 13:05 Date Received: 07/03/23 10:15

Client Sample ID: SW03

Project/Site: Poker Lake Unit 147

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			57435	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 01:18	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 20:48	СН	EET MID

Client Sample ID: SW04

Date Collected: 06/29/23 14:25 Date Received: 07/03/23 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	57092	07/06/23 13:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57094	07/06/23 20:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57134	07/07/23 10:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			57435	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 01:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 20:53	СН	EET MID

Client Sample ID: SW05

Date Collected: 06/29/23 14:30 Date Received: 07/03/23 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57092	07/06/23 13:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57094	07/06/23 20:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57134	07/07/23 10:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			57435	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 02:01	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 20:58	CH	EET MID

Client Sample ID: SW06

Date Collected: 06/30/23 09:50 Date Received: 07/03/23 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57092	07/06/23 13:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57094	07/06/23 21:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57134	07/07/23 10:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			57435	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 02:22	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Job ID: 890-4896-1 SDG: 03C1558252

Lab Sample ID: 890-4896-7

Lab Sample ID: 890-4896-8

Lab Sample ID: 890-4896-9

Matrix: Solid

Matrix: Solid

Matrix: Solid

9

Date Collected: 06/30/23 09:50 Date Received: 07/03/23 10:15

Client Sample ID: SW06

Project/Site: Poker Lake Unit 147

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 21:03	СН	EET MID

Client Sample ID: SW07

Date Collected: 06/30/23 10:30 Date Received: 07/03/23 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57092	07/06/23 13:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57094	07/06/23 21:39	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57134	07/07/23 10:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			57435	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 02:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 21:18	CH	EET MID

Client Sample ID: FS02 Date Collected: 06/30/23 11:00 Date Received: 07/03/23 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57092	07/06/23 13:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57094	07/06/23 22:05	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57134	07/07/23 10:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			57435	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 03:05	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 21:23	CH	EET MID

Client Sample ID: SW08 Date Collected: 06/30/23 14:50

Date Received: 07/03/23 10:15

Lab Sample ID: 890-4896-10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57092	07/06/23 13:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57094	07/06/23 22:32	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57134	07/07/23 10:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			57435	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 06:48	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 21:39	СН	EET MID

Eurofins Carlsbad

Project/Site: Poker Lake Unit 147

Client Sample ID: SW09

Date Collected: 06/30/23 12:55

Date Received: 07/03/23 10:15

Batch

Туре

Prep

Analysis

Analysis

Analysis

Client: Ensolum

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Initial

Amount

5.02 g

5 mL

10.02 g

1 uL

5.04 g

50 mL

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

50 mL

Batch

57092

57094

57134

57435

57165

57372

57031

57192

Number

Dil

1

1

1

Factor

Run

Job ID: 890-4896-1 SDG: 03C1558252

Lab Sample ID: 890-4896-11

Analyst

EL

SM

SM

SM

SM

SM

ĸs

СН

Lab Sample ID: 890-4896-12

Lab Sample ID: 890-4896-13

Prepared

or Analyzed

07/06/23 13:00

07/07/23 00:19

07/07/23 10:09

07/12/23 09:47

07/07/23 12:33

07/12/23 07:11

07/05/23 15:45

07/07/23 21:44

Matrix: Solid

Lab

EET MID

Matrix: Solid

Matrix: Solid

	ole ID: SW10		
Soluble	Analysis	300.0	1
Soluble	Leach	DI Leach	
Total/NA	Analysis	8015B NM	1
Total/NA	Prep	8015NM Prep	

Batch

Method

5035

8021B

Total BTEX

8015 NM

Date Collected: 06/30/23 14:30

Date Received: 07/03/23 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	57092	07/06/23 13:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57094	07/07/23 00:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57134	07/07/23 10:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			57435	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 07:33	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 21:49	СН	EET MID

Client Sample ID: FS03 Date Collected: 06/30/23 14:45

Date Received: 07/03/23 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	57125	07/07/23 09:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57118	07/07/23 22:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57134	07/10/23 15:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			57435	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 07:55	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57031	07/05/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57192	07/07/23 21:54	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Project/Site: Poker Lake Unit 147

Laboratory: Eurofins Midland

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

Authority	I	Program	Identification Number	Expiration Date
exas	I	NELAP	T104704400-23-26	06-30-24
• ,		but the laboratory is not certif	fied by the governing authority. This list ma	ay include analytes for
the agency does not of		Matrix	Analyta	
Analysis Method	fer certification Prep Method	Matrix	Analyte	
0,		Matrix Solid	Analyte Total TPH	
Analysis Method			,	

Page 213 of 268

10

Job ID: 890-4896-1

SDG: 03C1558252

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: Poker Lake Unit 147 Job ID: 890-4896-1 SDG: 03C1558252

Method	Method Description	Protocol	Laboratory	
3021B	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	
	Environmental Protection Agency			
	5 ,			
	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ed • TestAmerica Laboratories, Standard Operating Procedure	nion, november 1900 And its opdates.		
IAE OUI -	resumence Laboratories, Standard Operating Procedure			
Laboratory Re	ferences:			
EET MID =	Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440			

Eurofins Carlsbad

Sample Summary

Client: Ensolum Project/Site: Poker Lake Unit 147

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4896-1	FS01	Solid	06/29/23 09:15	07/03/23 10:15	12
890-4896-2	SW01	Solid	06/29/23 12:45	07/03/23 10:15	4 - 12
890-4896-3	SW02	Solid	06/29/23 12:55	07/03/23 10:15	4 - 12
890-4896-4	SW03	Solid	06/29/23 13:05	07/03/23 10:15	4 - 12
890-4896-5	SW04	Solid	06/29/23 14:25	07/03/23 10:15	4 - 12
890-4896-6	SW05	Solid	06/29/23 14:30	07/03/23 10:15	4 - 12
890-4896-7	SW06	Solid	06/30/23 09:50	07/03/23 10:15	0 - 4
890-4896-8	SW07	Solid	06/30/23 10:30	07/03/23 10:15	0 - 4
890-4896-9	FS02	Solid	06/30/23 11:00	07/03/23 10:15	13
890-4896-10	SW08	Solid	06/30/23 14:50	07/03/23 10:15	4 - 12
890-4896-11	SW09	Solid	06/30/23 12:55	07/03/23 10:15	0 - 4
890-4896-12	SW10	Solid	06/30/23 14:30	07/03/23 10:15	4 - 12
890-4896-13	FS03	Solid	06/30/23 14:45	07/03/23 10:15	13

Page 215 of 268

					H	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	575) 392	-7550, C	arlsbad,	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	WWW	www.xenco.com Page
Project Manager: Tao	Tacoma Morrissev	V			Bill to: (if different)	ent)	Amy Ruth	uth			V	ğ
	Ensolum				Company Name	ne:	XTO Energy	nergy			Program: UST/PST PRP Brownfields RRC	RP Brownfields
	3122 National Parks Hwy	Irks Hw	<		Address:		3104 E	3104 E. Green St	St.		State of Project:	
e ZIP:	Carlsbad, NM 88220	220			City, State ZIP:	.Ÿ	Carlsb	Carlsbad, NM 88220	88220		Reporting: Level II 🗌 Level III 🗍 PST/UST 🗍 TRRP 🗍	vel III D PST/UST
Phone: 303	303-887-2946			Email:	Email: Amy.Ruth@ExxonMobil.com	ExxonN	1obil.co	m			Deliverables: EDD	ADaPT
Project Name:	Poker Lake Unit 147	e Unit	147	Turn	Turn Around					ANALYSIS REQUEST	IEST	Preservative Codes
Project Number:	03C15	03C1558252		 Routine 	Rush	Pres. Code			_			None: NO
Project Location:				Due Date:					_			Cool: Cool
Sampler's Name:	Connor Whitman	Whitma	n	TAT starts th	e day received b	<						HCL: HC
PO #				the lab, if rec	the lab, if received by 4:30pm							H ₂ S0 ₄ : H ₂
SAMPLE RECEIPT	Temp Blank:	_	Yes No	Wet Ice:	Yes No	nete	.0)		-			H ₃ PO ₄ : HP
Samples Received Intact:			Thermometer ID:		FOOMOS	aran	3000		-			NaHSO4: NABIS
Cooler Custody Seals:	Yes No	MA C	Correction Factor:	stor:	-0.d	P	PA:					Na2S2O3: NaSO3
Sample Custody Seals:	Yes No	NIA TO	Temperature Reading:	Reading:	4.0	<u> </u>	S (EI	_)	890-4896 Chain of Custody	ody	Zn Acetate+NaOH: Zn
Total Containers:		C	Corrected Temperature	nperature:	4.0	1	IDE	_	8021	-	-	NaOH+Ascorbic Acid: SAPC
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth Grab/ Comp	b/ # of Cont	CHLOF	TPH (8	BTEX (Sample Comments
FSOI	_	5	6/29/23	915	12 0	-			_			Incident ID:
Shall			129/23		4-12 1	-						
SW02		6	129/25		4-12	-						
SMOS		8	6/23/23		4-12	-						Cost Center:
SWOH		0	(2)/23	22S	4-12	-						
SUUS		6	100/23		4-12	1						AFE:
SHOG		6	C/30/23	950	6-4	-		-	F			PA.2022.08191.EXP.01
SV07		5	170/23	1030	10-0							
FSOL		6	130/23	1100	13'	1						
2002		46	13923	250	4-12 1	1		_				
Total 200.7 / 6010	200.8 / 6020:	0.		8RCRA 13PPM	M Texas 11	AI Sb	As	Ba Be	B Cd	Ca Cr Co Cu Fe Pb Mg	Mn Mo Ni K Se	Ag SiO2 Na Sr TI Sn U
Circle Method(s) and Metal(s) to be analyzed	Metal(s) to be a	inalyze	đ	TCLP / SPLP 6010:		BRCRA	Sb As	As Ba Be		Cd Cr Co Cu Pb Mn Mo Ni	i Se Ag TI U	Hg: 1631 / 245.1 / 7470 / 7471
tice: Signature of this docun service. Eurofins Xenco will Eurofins Xenco. A minimum	ment and relinquish I be liable only for ti I charge of \$85.00 v	ment of s he cost of vill be app	amples constitutions amples and so the second secon	utes a valid purc hall not assume bject and a char	chase order from any responsibility ge of \$5 for each	client com ty for any I sample su	tpany to E losses or ubmitted	Eurofins) expense to Eurofir	Kenco, its s incurre 1s Xenco	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$5.00 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 of Eurofins Xenco.	signs standard terms and c e to circumstances beyond t be enforced unless previous	vnditions ne control ly negotiated.
Relinquished by: (Signature)	ignature)	2	Received	Received by: (Signature)	ure)		Date/Time	[ime		Relinquished by: (Signature)	e) Received	Received by: (Signature)
(the			120 6	5		1	cio Cio	2310	212			
		(1				1	4			

🔅 eurofins

¹

13

Chain of Custody Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300
🛟 eurofins		Environment Testing	sting	Hous	Chain of Custody on, TX (281) 240-4200, Dallas, TX (214) 90 TX (429) 704-5440 San Antonio TX (210)	Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Mirland TX (432) 7704-5440 San Antonio TX (210) 509-3334	Work O	Work Order No:	
	Xenco	CO		EL Pa	so, TX (915) 585-3443, Lt	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296			
				Hobbs	, NM (575) 392-7550, Ca	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	www.x	www.xenco.com Page	2 of 2
Project Manager:	Tacoma Morrissey	<		Bill to: (if different)) Amy Ruth		Wo	ğ	
	Ensolum			Company Name:			Program: UST/PST PRP Brownfields RRC Superfund	₹P Brownfields RF	RC Superfund
	3122 National Parks Hwy	rks Hwy		Address:	3104 E. Green St	St.	State of Project:	I]
le ZIP:	Carlsbad, NM 88220	220		City, State ZIP:	Carlsbad, NM 88220	18220	Reporting: Level II Cevel III PST/UST TRRP		
	303-887-2946		Email:	Email: Amy.Ruth@ExxonMobil.com	xonMobil.com		Deliverables: EDD	ADaPT D Ot	Other:
Project Name:	Poker Lake Unit 147	e Unit 147	Turn	Turn Around		ANALYSIS RE	REQUEST	Prese	Preservative Codes
Project Number:	03C1558252	58252	✓ Routine	Rush	Pres. Code			None: NO	DI Water: H ₂ O
Project Location:			Due Date:					Cool: Cool	MeOH: Me
Sampler's Name:	Connor Whitman	Whitman	TAT starts the	TAT starts the day received by				HCL: HC	HNO3: HN
PO #:			the lab, if rec	the lab, if received by 4:30pm	15			H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	PT Temp Blank:	ik: Yes No	Wet Ice:	Yes No	nete).0)			H ₃ PO ₄ : HP	
Samples Received Intact:	ntact: Yes No	Ţ	er ID:					NaHSO4: NABIS	IABIS
Cooler Custody Seals:	Yes No	NIA COFFECTION F	Factor: 1					Na20203. NaOU3	Haou3
Sample Custody Seals	Yes No	N/A Temperature	ire Reading:)			NaOH+Ascorbic Acid:	NaOH+Ascorbic Acid: SAPC
Sample Identification		Matrix Date Time	Time	Denth Grab/	** 9, LORIE H (801 EX (80			Samp	Sample Comments
		-	Daidilleo	Comp	TI				
5 MOS		c2/02/1 <	5521	0-4 0					NDM2004445850
Ecor Ecor		C (120/23	202	12/ 2					
1.201		-		-				Cost Center:	er:
				_					1137341001
	Å							AFE:	
								PA.20;	PA.2022.08191.EXP.01
					- LANN				
					; -		Ma Ma Ma Ni K Sa	Sid Na Sr TI	Sn II V Zn
Circle Method(s) and Metal(s) to be analyzed	nd Metal(s) to be an:		TCLP / SPLI	9 6010: 8R	dS dS	Cd Cr Co Cu Pb Mn	Ni Se Ag TI U	1/245.1/	70 / 7471
Notice: Signature of this c of service. Eurofins Xenco	socument and relinquish o will be liable only for th	ment of samples cons he cost of samples an	titutes a valid purc d shall not assume	chase order from cli any responsibility t	ent company to Eurofins X or any losses or expenses	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 client if such losses are due to circumstances beyond the control of service. Eurofine Xenco A minimum charge of 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 service. A minimum charge of 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 service.	It assigns standard terms and co re due to circumstances beyond th s will be enforced unless previous!	inditions le control y negotiated.	
Relinquished by: (Signature)	: (Signature)	Receive	Received by: (Signature)	ure)	Date/Time	Relinquished by: (Sign	gnature) Received b	Received by: (Signature)	Date/Time
- CH		June (M		1.3.0310	IA			
ω						4			
5			-			6		Revis	Revised Date: 08/25/2020 Rev. 2020.2

7/12/2023

Job Number: 890-4896-1 SDG Number: 03C1558252

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4896 List Number: 1 Creator: Clifton, Cloe

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	

Job Number: 890-4896-1 SDG Number: 03C1558252

List Source: Eurofins Midland

List Creation: 07/06/23 10:57 AM

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 4896 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 Released to Imaging: 1/5/2024 3:07:17 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 7/7/2023 3:10:23 PM

JOB DESCRIPTION

Poker Lake Unit 147 SDG NUMBER 03c1558252

JOB NUMBER

890-4900-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



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

AMER

Generated 7/7/2023 3:10:23 PM

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

Laboratory Job ID: 890-4900-1 SDG: 03c1558252

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Sample Summary	12
Chain of Custody	13
Receipt Checklists	14

2

Dofinitions/Glossary

Client: Ensolum Project/Site: Po

Qualifiers HPLC/IC Qualifier U

Glossary Abbreviation

DL, RA, RE, IN DLC EDL LOD LOQ MCL MDA MDC MDL ML

MPN

MQL NC

ND

NEG

POS

PQL

QC

RL RPD

TEF

TEQ

TNTC

RER

PRES

Most Probable Number Method Quantitation Limit

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

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

¤ %R CFL CFU CNF DER Dil Fac DL

Definitions/Glossary		1
n	Job ID: 890-4900-1	
oker Lake Unit 147	SDG: 03c1558252	2
		3
Qualifier Description		4
Indicates the analyte was analyzed for but not detected.		5
		5
These commonly used abbreviations may or may not be present in this report.		6
Listed under the "D" column to designate that the result is reported on a dry weight basis		
Percent Recovery		7
Contains Free Liquid		
Colony Forming Unit		8
Contains No Free Liquid		
Duplicate Error Ratio (normalized absolute difference)		Q
Dilution Factor		3
Detection Limit (DoD/DOE)		
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample		
Decision Level Concentration (Radiochemistry)		
Estimated Detection Limit (Dioxin)		
Limit of Detection (DoD/DOE)		
Limit of Quantitation (DoD/DOE)		
EPA recommended "Maximum Contaminant Level"		
Minimum Detectable Activity (Radiochemistry)		13
Minimum Detectable Concentration (Radiochemistry)		
Method Detection Limit		
Minimum Level (Dioxin)		

4

5

Case Narrative

Client: Ensolum Project/Site: Poker Lake Unit 147 Job ID: 890-4900-1 SDG: 03c1558252

Job ID: 890-4900-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4900-1

Receipt

The sample was received on 7/5/2023 2:15 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: SS13A (890-4900-1).

HPLC/IC

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

		Client	Sample Res	sults					
Client: Ensolum Project/Site: Poker Lake Unit 147							Job ID: 890 SDG: 03c ²		2
Client Sample ID: SS13A Date Collected: 07/05/23 12:10						Lab Sa	mple ID: 890- Matri	4900-1 ix: Solid	
Date Received: 07/05/23 14:15 Sample Depth: 1									4
Method: EPA 300.0 - Anions, lo Analyte		o <mark>hy - Soluble</mark> Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride	72.2		5.02	mg/Kg		riepaieu	07/07/23 13:11	1	
									8
									9
									13

...

. .

...

Project/Site: Poker Lake Unit 147

Client: Ensolum

QC Sample Results

Job ID: 890-4900-1 SDG: 03c1558252

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57126/1-A Matrix: Solid											Client S	ample ID: N Prep 1	/lethod Гуре: S	
Analysis Batch: 57174														
		MB	MB											
Analyte	R	esult	Qualifier		RL		Unit		D	Pi	repared	Analyze	d	Dil Fa
Chloride		<5.00	U		5.00		mg/K	g				07/07/23 1	2:35	
Lab Sample ID: LCS 880-57126/2-A									Cli	ent	Sample	ID: Lab Co	ntrol S	ample
Matrix: Solid												Prep 1	Type: S	olubl
Analysis Batch: 57174														
				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride				250		252.0		mg/Kg		_	101	90 - 110		
Lab Sample ID: LCSD 880-57126/3	A							CI	ient S	Sam	ple ID: I	_ab Control	Sampl	e Du
Matrix: Solid													Type: S	
Analysis Batch: 57174														
-				Spike		LCSD	LCSD					%Rec		RPD
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride				250		252.5		mg/Kg		_	101	90 - 110	0	20
Lab Sample ID: 890-4902-A-1-B MS	;										Client	Sample ID:	Matrix	Spik
Matrix: Solid												Prep 1	Type: S	olubl
Analysis Batch: 57174														
	Sample	Samp	ole	Spike		MS	MS					%Rec		
Analyte	Result	Quali	fier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	38.6			249		290.7		mg/Kg		_	101	90 - 110		
•									Clien	t Sa	mple ID	: Matrix Sp	ike Dur	olicat
Lab Sample ID: 890-4902-A-1-C MS	D										-			
Lab Sample ID: 890-4902-A-1-C MS Matrix: Solid	D											Prep 1	Type: S	olubl
-	D											Prep 1	Type: S	olubl
Matrix: Solid	Sample	Samp	ble	Spike		MSD	MSD					Prep ٦ %Rec	Type: S	
Matrix: Solid				Spike Added			MSD Qualifier	Unit		D	%Rec		Type: S RPD	oluble RPE Limi

Eurofins Carlsbad

QC Association Summary

Client: Ensolum Project/Site: Poker Lake Unit 147

HPLC/IC

Leach Batch: 57126

ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
90-4900-1	SS13A	Soluble	Solid	DI Leach	
B 880-57126/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-57126/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
CSD 880-57126/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
90-4902-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
90-4902-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
nalysis Batch: 57174					
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
90-4900-1	SS13A	Soluble	Solid	300.0	57126
IB 880-57126/1-A	Method Blank	Soluble	Solid	300.0	57126
CS 880-57126/2-A	Lab Control Sample	Soluble	Solid	300.0	57126
00 000 01 120/2-11	Lab Control Sample Dup	Soluble	Solid	300.0	57126
CSD 880-57126/3-A	Eab Control Campio Bup				
	Matrix Spike	Soluble	Solid	300.0	57126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4900-1	SS13A	Soluble	Solid	300.0	57126
MB 880-57126/1-A	Method Blank	Soluble	Solid	300.0	57126
LCS 880-57126/2-A	Lab Control Sample	Soluble	Solid	300.0	57126
LCSD 880-57126/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57126
890-4902-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	57126
890-4902-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	57126

Eurofins Carlsbad

Job ID: 890-4900-1 SDG: 03c1558252

Lab Chronicle

Job ID: 890-4900-1 SDG: 03c1558252

Matrix: Solid

Lab Sample ID: 890-4900-1

Client Sample ID: SS13A Date Collected: 07/05/23 12:10 Date Received: 07/05/23 14:15

Project/Site: Poker Lake Unit 147

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			4.98 g	50 mL	57126	07/07/23 09:34	KS	EET MID	1
Soluble	Analysis	300.0		1	50 mL	50 mL	57174	07/07/23 13:11	CH	EET MID	
Laboratory Refer	ences:										

Laboratory References:

Client: Ensolum

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

Accreditation/Certification Summary

		Sertification Summary		
Client: Ensolum Project/Site: Poker Lake Unit	147			890-4900-1 03c1558252
Laboratory: Eurofins Mi				3
The accreditations/certifications listed				
Authority	Program NELAP	Identification Number T104704400-23-26	Expiration Date 06-30-24	
Texas	NELAP	1104704400-23-20	06-30-24	5
				8
				9
				13

Method Summary

Client: Ensolum Project/Site: Poker Lake Unit 147

Job ID: 890-4900-1 SDG: 03c1558252

Method	Method Description	Protocol	Laboratory	
300.0	Anions, Ion Chromatography	EPA	EET MID	
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID	
Protocol Re	ferences:			5
ASTM =	ASTM International			
EPA = U	S Environmental Protection Agency			
Laboratory	References:			
EET MI	D = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440			6
				6
				C
				1

Protocol References:

Laboratory References:

Sample Summary

Job ID: 890-4900-1 SDG: 03c1558252

Client: Ensolum Project/Site: Poker Lake Unit 147

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	_
90-4900-1	SS13A	Solid	07/05/23 12:10	07/05/23 14:15	1	4
						5
						8
						9
						11
						13

🔅 eurofins		Environment Testing Xenco	esting	Houst Midland EL Pas Hobbs	ion, TX (281) 240-4200, , TX (432) 704-5440, Sa so, TX (915) 585-3443, L , NM (575) 392-7550, C:	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) 565-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	W	
				110000				www.xenco.com Page
Project Manager: Ta	Tacoma Morrissey	ey		Bill to: (if different)) Amy Ruth			Work Order Comments
	Ensolum			Company Name			Program: UST/PST	Program: UST/PST PRP Brownfields RRC Superfund
	3122 National Parks Hwy	arks Hwy		Address:	3104 E. Green St	St.	State of Project:	J
e ZIP:	Carlsbad, NM 88220	3220		City, State ZIP:	Carlsbad, NM 88220	8220	Reporting: Level II	Reporting: Level II Level III PST/UST TRRP
	303-887-2946		Email:		xonMobil.com		Deliverables: EDD	ADaPT
Name:	Poker La	Poker Lake Unit 147	Turn	Turn Around		ANALYSIS F	IS REQUEST	Preservative Codes
Project Number:	03C1	03C1558252	Routine	Rush	Pres. Code			None: NO
Project Location:			Due Date:	24H				Cool: Cool
Sampler's Name:	Connor	Connor Whitman	TAT starts th	TAT starts the day received by				HCL: HC
PO#)	-		_			
SAMPLE RECEIPT	Temp E		o Wet Ice:	(Yes No				
Conter Custody Seals	Act: Yes No	No Thermometer ID:	Factor	1 Court	Para A: 300			Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes	-	emperature Reading:	4.2		890-4900	Chain of Custody	Zn Acetate+NaOH: Zn
Total Containers:			Corrected Temperature:	4.0	015)		_	NaOH+Ascorbic Acid: SAPC
Sample Identification		Matrix Date Sampled	Time d Sampled	Depth Grab/ Comp	CHLOF TPH (8	BTEX (Sample Comments
S513A		5 9/5/23		- G	- /			Incident ID:
	/							Cost Center:
	1	4						
		/	/					AFE:
			/	/				PA.2022.08191.EXP.01
					A 92			
					7			
Total 200.7 / 6010	0 200.8 / 6020:	20:	8RCRA 13PPM	M Texas 11	Al Sb As Ba Be CRA Sb As Ba B	RA 13PPM Texas11 AISb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni	Pb Mg Mn Mo Ni K Mo Ni Se Ag TI U	Se Ag SiO ₂ Na Sr TI Sn U V Zr Hg: 1631/245.1/7470/7471
Notice: Signature of this document and relinquishment of satories of service. Eurofins Xenco will be liable only for the cost of s	cument and relinquis will be liable only for	hment of samples co the cost of samples	and shall not assum	chase order from cli e any responsibility	ent company to Eurofins) for any losses or expense	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 client if such losses are due to concommisted service to account the control of service.	s. It assigns standard terms are due to circumstances be	and conditions
Relinquished by: (Signature)	(Signature)) Rece	Received by: (Signature)	lure)	Date/Time	Relinquished by: (Sig	(Signature) Recei	Received by: (Signature)
tuto		River	C		7-5-23141	S.		
		(1 - 1			4		

Job Number: 890-4900-1 SDG Number: 03c1558252

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4900 List Number: 1 Creator: Clifton, Cloe

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	

Job Number: 890-4900-1 SDG Number: 03c1558252

List Source: Eurofins Midland

List Creation: 07/07/23 10:52 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4900 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	8
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	9
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	13
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	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 8/24/2023 2:08:51 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 7/12/2023 12:13:14 PM

JOB DESCRIPTION

Poker Lake Unit 147 SDG NUMBER 03C1558252

JOB NUMBER

890-4901-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

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

AMER

Generated 7/12/2023 12:13:14 PM

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

Laboratory Job ID: 890-4901-1 SDG: 03C1558252

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	13
	14
	20
Lab Chronicle	23
Certification Summary	26
Method Summary	27
Sample Summary	28
Chain of Custody	29
-	30

of 268

3

ceiveu by OC	D: 8/24/2023 2:08:51 PM	Page 238 of
	Definitions/Glossary	
Client: Ensolu		Job ID: 890-4901-1
-	oker Lake Unit 147	SDG: 03C155825
Qualifiers		
GC VOA Qualifier	Qualifier Description	
*_	LCS and/or LCSD is outside acceptance limits, low biased.	
*1	LCS/LCSD RPD exceeds control limits.	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
	Quelline Description	
Qualifier F1	Qualifier Description 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	
CNF	Contains No Free Liquid	
DER Dil Fac	Duplicate Error Ratio (normalized absolute difference) Dilution Factor	
DI Fac DL		
DL DL, RA, RE, IN	Detection Limit (DoD/DOE)	
	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC EDL	Decision Level Concentration (Radiochemistry) Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
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	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	

- RL Reporting Limit or Requested Limit (Radiochemistry)
- Relative Percent Difference, a measure of the relative difference between two points RPD
- TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Job ID: 890-4901-1 SDG: 03C1558252

Job ID: 890-4901-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Project/Site: Poker Lake Unit 147

Narrative

Job Narrative 890-4901-1

Receipt

The samples were received on 7/5/2023 2:15 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 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW12 (890-4901-1), SW13 (890-4901-2), FS04 (890-4901-3), FS05 (890-4901-4), SW11 (890-4901-5), FS06 (890-4901-6) and FS07 (890-4901-7).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-57164 and analytical batch 880-57167 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: CCV was biased low for benzene. Another CCV was analyzed and acceptable within the 12 hour window; therefore the data was qualified and reported. (CCV 880-57167/20)

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 880-57168 and analytical batch 880-57224 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4901-A-7-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike (MS); therefore, matrix spike recoveries are unavailable for preparation batch 880-57168 and analytical batch 880-57224. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-57168 and analytical batch 880-57224 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4895-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS04 (890-4901-3). 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) precision for preparation batch 880-57165 and analytical batch 880-57372 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS05 (890-4901-4), SW11 (890-4901-5) and FS06 (890-4901-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-57126

Case Narrative

Job ID: 890-4901-1
SDG: 03C1558252

Job ID: 890-4901-1 (Continued)

Project/Site: Poker Lake Unit 147

Client: Ensolum

Laboratory: Eurofins Carlsbad (Continued)

and 880-57126 and analytical batch 880-57174 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.

3	
4	
5	
8	
9	

RL

0.00198

0.00198

0.00198

0.00396

0.00198

0.00396

Limits

70 - 130 70 - 130

RL

RL

49.9

0.00396

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

Unit

mg/Kg

mg/Kg

D

D

D

Prepared

07/07/23 12:29

07/07/23 12:29

07/07/23 12:29

07/07/23 12:29

07/07/23 12:29

07/07/23 12:29

Prepared

07/07/23 12:29

07/07/23 12:29

Prepared

Prepared

Dil Fac

1

1

1

1

Dil Fac

Job ID: 890-4901-1 SDG: 03C1558252

Client Sample ID: SW12

Method: SW846 8021B - Volatile Organic Compounds (GC)

Method: TAL SOP Total BTEX - Total BTEX Calculation

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier

<0.00198 U

<0.00198 U*-

<0.00198 U*-*1

<0.00396 U*-*1

<0.00198 U*-*1

<0.00396 U*-*1

93

90

<0.00396 U

Result Qualifier

Result Qualifier

<49.9 U

Qualifier

%Recovery

Project/Site: Poker Lake Unit 147

Date Collected: 07/05/23 09:30 Date Received: 07/05/23 14:15

Sample Depth: 0 - 4

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analyzed

07/07/23 23:59

07/07/23 23:59

07/07/23 23:59

07/07/23 23:59

07/07/23 23:59

07/07/23 23:59

Analyzed

07/07/23 23:59

07/07/23 23:59

Analyzed

07/10/23 15:12

Analyzed

07/12/23 09:47

Lab Sample ID: 890-4901-1 Matrix: Solid

5

Dil Fac	
1	
Dil Fac	13
1	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		07/07/23 12:33	07/12/23 08:17	1
(GRO)-C6-C10								
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/07/23 12:33	07/12/23 08:17	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/07/23 12:33	07/12/23 08:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			07/07/23 12:33	07/12/23 08:17	1
o-Terphenyl	104		70 - 130			07/07/23 12:33	07/12/23 08:17	1
– Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	384		4.98	mg/Kg			07/07/23 13:17	1

Client Sample ID: SW13 Date Collected: 07/05/23 09:35 Date Received: 07/05/23 14:15

Sample Depth: 0 - 4

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/07/23 12:29	07/08/23 00:20	1
Toluene	<0.00201	U *-	0.00201	mg/Kg		07/07/23 12:29	07/08/23 00:20	1
Ethylbenzene	<0.00201	U *- *1	0.00201	mg/Kg		07/07/23 12:29	07/08/23 00:20	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402	mg/Kg		07/07/23 12:29	07/08/23 00:20	1
o-Xylene	<0.00201	U *- *1	0.00201	mg/Kg		07/07/23 12:29	07/08/23 00:20	1
Xylenes, Total	<0.00402	U *- *1	0.00402	mg/Kg		07/07/23 12:29	07/08/23 00:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			07/07/23 12:29	07/08/23 00:20	1

Eurofins Carlsbad

Matrix: Solid

Released to Imaging: 1/5/2024 3:07:17 PM

Job ID: 890-4901-1 SDG: 03C1558252

Matrix: Solid

5

Lab Sample ID: 890-4901-2

Project/Site: Poker Lake Unit 147 Client Sample ID: SW13

Date Collected: 07/05/23 09:35

Date Received: 07/05/23 14:15 Sample Depth: 0 - 4

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	71		70 - 130			07/07/23 12:29	07/08/23 00:20	1
Method: TAL SOP Total BTEX - T	otal BTEX Calc	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/10/23 15:12	1
Method: SW846 8015 NM - Diese	I Range Organi	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.8		50.0	mg/Kg			07/12/23 09:47	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/12/23 08:39	1
Diesel Range Organics (Over C10-C28)	69.8		50.0	mg/Kg		07/07/23 12:33	07/12/23 08:39	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/12/23 08:39	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			07/07/23 12:33	07/12/23 08:39	î
o-Terphenyl	102		70 - 130			07/07/23 12:33	07/12/23 08:39	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	469		4.96	mg/Kg			07/07/23 13:22	1

Date Received: 07/05/23 14:15

Sample Depth: 12

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/07/23 12:29	07/08/23 00:40	1
Toluene	<0.00202	U *-	0.00202	mg/Kg		07/07/23 12:29	07/08/23 00:40	1
Ethylbenzene	<0.00202	U *- *1	0.00202	mg/Kg		07/07/23 12:29	07/08/23 00:40	1
m-Xylene & p-Xylene	<0.00403	U *- *1	0.00403	mg/Kg		07/07/23 12:29	07/08/23 00:40	1
o-Xylene	<0.00202	U *- *1	0.00202	mg/Kg		07/07/23 12:29	07/08/23 00:40	1
Xylenes, Total	<0.00403	U *- *1	0.00403	mg/Kg		07/07/23 12:29	07/08/23 00:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			07/07/23 12:29	07/08/23 00:40	1
1,4-Difluorobenzene (Surr)	60	S1-	70 - 130			07/07/23 12:29	07/08/23 00:40	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/10/23 15:12	1
- Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Job ID: 890-4901-1 SDG: 03C1558252

Matrix: Solid

Lab Sample ID: 890-4901-3

Client Sample ID: FS04

Project/Site: Poker Lake Unit 147

Date Collected: 07/05/23 09:40 Date Received: 07/05/23 14:15

Sample Depth: 12

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/07/23 12:33	07/12/23 09:00	1
Diesel Range Organics (Over C10-C28)	87.3		49.8	mg/Kg		07/07/23 12:33	07/12/23 09:00	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/07/23 12:33	07/12/23 09:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130			07/07/23 12:33	07/12/23 09:00	1
o-Terphenyl	114		70 - 130			07/07/23 12:33	07/12/23 09:00	1

Method: EPA 300.0 - Anions, Ion C	nromatograpny - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171	5.01	mg/Kg			07/07/23 13:37	1

Client Sample ID: FS05

Date Collected: 07/05/23 09:45

Date Received: 07/05/23 14:15

Sample Depth: 12

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/07/23 12:29	07/08/23 01:01	1
Toluene	<0.00200	U *-	0.00200	mg/Kg		07/07/23 12:29	07/08/23 01:01	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		07/07/23 12:29	07/08/23 01:01	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399	mg/Kg		07/07/23 12:29	07/08/23 01:01	1
o-Xylene	<0.00200	U *- *1	0.00200	mg/Kg		07/07/23 12:29	07/08/23 01:01	1
Xylenes, Total	<0.00399	U *- *1	0.00399	mg/Kg		07/07/23 12:29	07/08/23 01:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			07/07/23 12:29	07/08/23 01:01	1
1,4-Difluorobenzene (Surr)	76		70 - 130			07/07/23 12:29	07/08/23 01:01	1
Method: TAL SOP Total BTEX - T Analyte Total BTEX		Qualifier	RL 0.00399	Unit mg/Kg	D	Prepared	Analyzed 07/10/23 15:12	Dil Fac
Method: SW846 8015 NM - Diese Analyte	• •	<mark>ics (DRO) (</mark> Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	107		50.0	mg/Kg			07/12/23 12:42	1
Method: SW846 8015B NM - Dies Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/12/23 09:22	1
Diesel Range Organics (Over C10-C28)	107		50.0	mg/Kg		07/07/23 12:33	07/12/23 09:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/12/23 09:22	1

Analyzed Surrogate %Recovery Qualifier Limits Prepared Dil Fac 07/07/23 12:33 07/12/23 09:22 1-Chlorooctane 131 S1+ 70 - 130 1 o-Terphenyl 111 70 - 130 07/07/23 12:33 07/12/23 09:22 1

iente Freeslung		Unch	t Sample Res	Julio			I.a.h. ID: 000	4004 4
lient: Ensolum roject/Site: Poker Lake Unit 147							Job ID: 890 SDG: 03C1	
							303.030	550252
lient Sample ID: FS05						Lab San	nple ID: 890-	4901-4
ate Collected: 07/05/23 09:45							Matri	x: Solid
ate Received: 07/05/23 14:15								
ample Depth: 12								
Method: EPA 300.0 - Anions, Ion	Chromatograp	hv - Solubl	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		4.97	mg/Kg			07/07/23 13:42	1
lient Sample ID: SW11						Lab Sar	nple ID: 890-	4901-5
Date Collected: 07/05/23 09:50							-	x: Solid
Date Received: 07/05/23 14:15								
Sample Depth: 4 - 12								
-								
Method: SW846 8021B - Volatile C	•	ounds (GC) Qualifier		Unit		Broporod	Analyzad	Dil Eag
Analyte Benzene	- Result <0.00200		RL	Unit mg/Kg	D	Prepared 07/07/23 12:29	Analyzed 07/08/23 01:21	Dil Fac
Toluene	<0.00200 0.00232		0.00200	mg/Kg		07/07/23 12:29	07/08/23 01:21	1
Ethylbenzene	< 0.00202		0.00200	mg/Kg		07/07/23 12:29	07/08/23 01:21	
m-Xylene & p-Xylene	< 0.00200		0.00401	mg/Kg		07/07/23 12:29	07/08/23 01:21	· · · · · · · · 1
o-Xylene	< 0.00200		0.00200	mg/Kg		07/07/23 12:29	07/08/23 01:21	1
Xylenes, Total	< 0.00401		0.00401	mg/Kg		07/07/23 12:29	07/08/23 01:21	
· ·			- -					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			07/07/23 12:29	07/08/23 01:21	
1,4-Difluorobenzene (Surr) -	66	S1-	70 - 130			07/07/23 12:29	07/08/23 01:21	1
- Method: TAL SOP Total BTEX - To	otal BTEX Cal	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/10/23 15:12	1
-								
Method: SW846 8015 NM - Diesel					_	- ·		
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	0	50.1	mg/Kg			07/12/23 12:42	1
Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		07/07/23 12:33	07/12/23 09:45	1
Diesel Range Organics (Over	<50.1	U	50.1	mg/Kg		07/07/23 12:33	07/12/23 09:45	1
C10-C28)			- - ·					
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		07/07/23 12:33	07/12/23 09:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	138	S1+	70 - 130			07/07/23 12:33	07/12/23 09:45	1
o-Terphenyl	118		70 - 130			07/07/23 12:33	07/12/23 09:45	1
Method: EPA 300.0 - Anions, Ion	Chromatogram	hy - Solubl	e					
			RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Quaimer	RL	Unit		Fiepaleu	Analyzeu	DIFAC

Method: SW846 8021B - Volatile Organic Compounds (GC)

Method: TAL SOP Total BTEX - Total BTEX Calculation

Result Qualifier

<0.00201 U

<0.00201 U*-

0.00323 *- *1

<0.00402 U*-*1

<0.00201 U *- *1

<0.00402 U*-*1

113

86

<0.00402 U

Result Qualifier

Qualifier

%Recovery

Prepared

07/07/23 12:29

07/07/23 12:29

07/07/23 12:29

07/07/23 12:29

07/07/23 12:29

07/07/23 12:29

Prepared

07/07/23 12:29

07/07/23 12:29

Prepared

Page 245 of 268

Job ID: 890-4901-1 SDG: 03C1558252

Project/Site: Poker Lake Unit 147

Date Collected: 07/05/23 10:00 Date Received: 07/05/23 14:15

Sample Depth: 12

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: Ensolum

		. 000100020	-
Lab Sample	ID:	890-4901-	6

Analyzed

07/08/23 01:42

07/08/23 01:42

07/08/23 01:42

07/08/23 01:42

07/08/23 01:42

07/08/23 01:42

Analyzed

07/08/23 01:42

07/08/23 01:42

Analyzed

07/10/23 15:12

Matrix: Solid

Dil Fac

1

1

1

1

1

1

1

1

Dil Fac

Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	292		50.1	mg/Kg			07/12/23 12:42	
- Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		07/07/23 12:33	07/12/23 10:14	
Diesel Range Organics (Over C10-C28)	292		50.1	mg/Kg		07/07/23 12:33	07/12/23 10:14	
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		07/07/23 12:33	07/12/23 10:14	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	143	S1+	70 - 130			07/07/23 12:33	07/12/23 10:14	
o-Terphenyl	121		70 - 130			07/07/23 12:33	07/12/23 10:14	
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	307		25.0	mg/Kg			07/07/23 13:52	Ę
Client Sample ID: FS07						Lab Sar	nple ID: 890-	4901-7
Date Collected: 07/05/23 10:05							Matri	x: Solic
Date Received: 07/05/23 14:15								
Sample Depth: 12								
_ Method: SW846 8021B - Volatile (Organic Comp	ounds (GC)					
Analyte	•	Qualifier	, RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample Results

RL

0.00201

0.00201

0.00201

0.00402

0.00201

0.00402

Limits

70 - 130

70 - 130

RL

0.00402

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

D

D

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/07/23 12:29	07/08/23 02:02	1
Toluene	<0.00200	U *-	0.00200	mg/Kg		07/07/23 12:29	07/08/23 02:02	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		07/07/23 12:29	07/08/23 02:02	1
m-Xylene & p-Xylene	<0.00401	U *- *1	0.00401	mg/Kg		07/07/23 12:29	07/08/23 02:02	1
o-Xylene	<0.00200	U *- *1	0.00200	mg/Kg		07/07/23 12:29	07/08/23 02:02	1
Xylenes, Total	<0.00401	U *- *1	0.00401	mg/Kg		07/07/23 12:29	07/08/23 02:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			07/07/23 12:29	07/08/23 02:02	1

Job ID: 890-4901-1 SDG: 03C1558252

Client Sample ID: FS07

Project/Site: Poker Lake Unit 147

Date Collected: 07/05/23 10:05 Date Received: 07/05/23 14:15

Sample Depth: 12

Client: Ensolum

Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)) (Continued)					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130			07/07/23 12:29	07/08/23 02:02	1
_ Method: TAL SOP Total BTEX - 1	otal BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/10/23 15:12	1
_ Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	239		50.1	mg/Kg			07/10/23 12:23	1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	• •	Qualifier	(GC) <u>RL</u> <u>50.1</u>	Unit mg/Kg	D	Prepared 07/07/23 12:45	Analyzed	Dil Fac
(GRO)-C6-C10	<50.1	UFIFZ	50.1	ilig/Kg		07/07/23 12.45	07/09/23 10:30	I
Diesel Range Organics (Over C10-C28)	239	*1 F1 F2	50.1	mg/Kg		07/07/23 12:45	07/09/23 10:56	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		07/07/23 12:45	07/09/23 10:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			07/07/23 12:45	07/09/23 10:56	1
o-Terphenyl	110		70 - 130			07/07/23 12:45	07/09/23 10:56	1
—		hy Colubi	•					
Method: EPA 300.0 - Anions, Ion	Chromatogran	niy - Solubi	C					
Method: EPA 300.0 - Anions, Ion Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Carlsbad

Lab Sample ID: 890-4901-7 Matrix: Solid

Client: Ensolum Project/Site: Poker Lake Unit 147

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 Client Sample ID (70-130) (70-130) Lab Sample ID 880-30453-A-1-A MS Matrix Spike 119 111 880-30453-A-1-B MSD Matrix Spike Duplicate 111 113 890-4901-1 SW12 93 90 SW13 94 71 890-4901-2 890-4901-3 FS04 93 60 S1-FS05 890-4901-4 84 76 890-4901-5 SW11 88 66 S1-890-4901-6 FS06 86 113 890-4901-7 FS07 96 65 S1-LCS 880-57164/1-A Lab Control Sample 53 S1-98 LCSD 880-57164/2-A Lab Control Sample Dup 112 107 MB 880-57164/5-A Method Blank 70 88 Surrogate Legend BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Re
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4895-A-1-G MS	Matrix Spike	117	92	
890-4895-A-1-H MSD	Matrix Spike Duplicate	133 S1+	104	
890-4901-1	SW12	123	104	
890-4901-2	SW13	124	102	
890-4901-3	FS04	133 S1+	114	
890-4901-4	FS05	131 S1+	111	
890-4901-5	SW11	138 S1+	118	
890-4901-6	FS06	143 S1+	121	
890-4901-7	FS07	129	110	
890-4901-7 MS	FS07	107	93	
890-4901-7 MSD	FS07	136 S1+	109	
LCS 880-57165/2-A	Lab Control Sample	106	93	
LCS 880-57168/2-A	Lab Control Sample	87	80	
LCSD 880-57165/3-A	Lab Control Sample Dup	114	101	
LCSD 880-57168/3-A	Lab Control Sample Dup	108	98	
MB 880-57165/1-A	Method Blank	120	105	
	Method Blank	151 S1+	131 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

6

Prep Type: Total/NA

Job ID: 890-4901-1 SDG: 03C1558252

Prep Type: Total/NA

Client Sample ID: Method Blank

Project/Site: Poker Lake Unit 147 Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57164/5-A	
11 () () () () () () () () () (

Matrix: Solid Analysis Batch: 57167

Client: Ensolum

Analysis Batch: 57167							Prep Batch	n: 57164
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/07/23 12:29	07/07/23 18:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/07/23 12:29	07/07/23 18:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/07/23 12:29	07/07/23 18:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/07/23 12:29	07/07/23 18:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/07/23 12:29	07/07/23 18:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/07/23 12:29	07/07/23 18:09	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130			07/07/23 12:29	07/07/23 18:09	1
1,4-Difluorobenzene (Surr)	88		70 - 130			07/07/23 12:29	07/07/23 18:09	1

Lab Sample ID: LCS 880-57164/1-A Matrix: Solid

Analysis Batch: 57167

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07173		mg/Kg		72	70 - 130	
Toluene	0.100	0.06423	*_	mg/Kg		64	70 - 130	
Ethylbenzene	0.100	0.05354	*-	mg/Kg		54	70 - 130	
m-Xylene & p-Xylene	0.200	0.09575	*-	mg/Kg		48	70 - 130	
o-Xylene	0.100	0.04602	*_	mg/Kg		46	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	53	S1-	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-57164/2-A

Matrix: Solid

Analysis Batch: 57167							Prep	Batch:	Batch: 57164	
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07965		mg/Kg		80	70 - 130	10	35	
Toluene	0.100	0.09029		mg/Kg		90	70 - 130	34	35	
Ethylbenzene	0.100	0.09132	*1	mg/Kg		91	70 - 130	52	35	
m-Xylene & p-Xylene	0.200	0.1873	*1	mg/Kg		94	70 - 130	65	35	
o-Xylene	0.100	0.09494	*1	mg/Kg		95	70 - 130	69	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-30453-A-1-A MS

Matrix: Solid alveie Ratch: 57467

Analysis Batch: 57167									Pre	Batch: 57164
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.07757		mg/Kg		76	70 - 130	
Toluene	<0.00199	U *-	0.101	0.09203		mg/Kg		91	70 - 130	

Eurofins Carlsbad

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep

Prep Type: Total/NA

Batch:	57164	

10-	130		

Client Sample ID: Matrix Spike

Released to Imaging: 1/5/2024 3:07:17 PM

Lab Sample ID: 880-30453-A-1-A MS

QC Sample Results

MS MS

0.09317

0.1919

0.09673

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.101

0.202

0.101

Limits 70 - 130

70 - 130

70 - 130

70 - 130

Client: Ensolum Project/Site: Poker Lake Unit 147

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 57167

Sample Sample

<0.00398 U *1 *-

<0.00199 U *1 *-

119

111

111

113

MS MS

<0.00199

%Recovery

Result Qualifier

U *1 *-

Qualifier

Prep Type: Total/NA

Prep Batch: 57164

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

92

95

96

D

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Client Sample ID: Method Blank

07/11/23 22:05

07/11/23 22:05

Client Sample ID: Lab Control Sample

07/07/23 12:33

07/07/23 12:33

Prep Type: Total/NA

Prep Batch: 57165

Matrix: Solid Analysis Batch: 57167

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: 880-30453-A-1-B MSD

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 57167									Prep	Batch:	57164
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	< 0.00199	U	0.0994	0.08311		mg/Kg		83	70 - 130	7	35
Toluene	<0.00199	U *-	0.0994	0.09410		mg/Kg		95	70 - 130	2	35
Ethylbenzene	<0.00199	U *1 *-	0.0994	0.08949		mg/Kg		90	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U *1 *-	0.199	0.1823		mg/Kg		92	70 - 130	5	35
o-Xylene	<0.00199	U *1 *-	0.0994	0.09156		mg/Kg		92	70 - 130	5	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								

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

Lab Sample ID: MB 880-57165/1-A Matrix: Solid Analysis Batch: 57372

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/11/23 22:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/11/23 22:05	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/07/23 12:33	07/11/23 22:05	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane	120	70 - 130
o-Terphenyl	105	70 - 130
_		

Lab Sample ID: LCS 880-57165/2-A Matrix: Solid

Analysis Batch: 57372		Prep Batch: 57165							
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	980.1		mg/Kg		98	70 - 130		
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	999.5		mg/Kg		100	70 - 130		
C10-C28)									

Eurofins Carlsbad

Prep Type: Total/NA

1

QC Sample Results

Client: Ensolum Project/Site: Poker Lake Unit 147

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

Lab Sample ID: LCS 880-57	165/2-A						Client	t Sample	ID: Lab C		
Matrix: Solid										Гуре: То	
Analysis Batch: 57372									Prep	Batch:	57165
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	106		70 - 130								
o-Terphenyl	93		70 - 130								
Lab Sample ID: LCSD 880-5	7465/2 4					Clie	nt San		Lab Contro	Sampl	
Matrix: Solid	1105/3-A					Cilei	ni San	ipie iD.			
										Type: To	
Analysis Batch: 57372			Califo	1.000	1.000					Batch:	
A			Spike		LCSD	11	-	0/ D	%Rec		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	912.5		mg/Kg		91	70 - 130	7	20
Diesel Range Organics (Over			1000	906.2		mg/Kg		91	70 - 130	10	20
C10-C28)			1000	000.2		mgring		01	10-100	10	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	101		70 - 130								
Lab Sample ID: 890-4895-A-	1-G MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep 1	Гуре: То	tal/NA
Analysis Batch: 57372									Prep	Batch:	57165
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9	U F2	999	852.1		mg/Kg		81	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	1069		mg/Kg		105	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	92		70 - 130								
Lab Sample ID: 890-4895-A-	1-H MSD					CI	ient S	ample IC	D: Matrix S	oike Dup	olicate
Matrix: Solid									Prep 1	Гуре: То	tal/NA
Analysis Batch: 57372									Prep	Batch:	57165
	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 F2	1000	1050	F2	mg/Kg		101	70 - 130	21	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	1000	1234		mg/Kg		121	70 - 130	14	20
C10-C28)											
	MSD	MSD									
Surrogate	%Recovery		Limits								

	11/30	1050	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	104		70 - 130

Page 250 of 268

Job ID: 890-4901-1

SDG: 03C1558252

QC Sample Results

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

Lab Sample ID: MB 880-57168/1-	Α							Client Sa	ample ID: Me	thod B	lank
Matrix: Solid									Prep Typ	e: Tota	I/NA
Analysis Batch: 57224									Prep Ba		
	I	ИВ МВ									
Analyte	Res	ult Quali	ier R	L	Unit		D	Prepared	Analyzed	D	il Fac
Gasoline Range Organics	<5	0.0 U	50.	0	mg/Kg	9	07	7/07/23 12:45	07/09/23 08:1	19	1
(GRO)-C6-C10						-					
Diesel Range Organics (Over	<5	0.0 U	50.	0	mg/Kg	9	07	7/07/23 12:45	07/09/23 08:1	19	1
C10-C28)											
Oll Range Organics (Over C28-C36)	<5	0.0 U	50.	0	mg/Kg	9	07	7/07/23 12:45	07/09/23 08:1	19	1
		ИВ МВ									
Surrogate	%Recov	ery Quali	ïer Limits					Prepared	Analyzed	D	il Fac
1-Chlorooctane		51 S1+	70 - 130	_			07	7/07/23 12:45	07/09/23 08:1	19	1
o-Terphenyl	-	31 S1+	70 - 130				07	7/07/23 12:45	07/09/23 08:1	19	1
Lab Sample ID: LCS 880-57168/2	-A						Clie	nt Sample	ID: Lab Cont	rol Sar	nple
Matrix: Solid									Ргер Тур	e: Tota	I/NA
Analysis Batch: 57224									Prep Ba	atch: 5	7168
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	0) %Rec	Limits		
Gasoline Range Organics			1000	881.5		mg/Kg		88	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	697.0		mg/Kg		70	70 - 130		
C10-C28)											
	LCS I	.cs									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	80		70 - 130								
Lab Sample ID: LCSD 880-57168	/3-A					Cli	ent Sa	mple ID: L	ab Control S	ample	Dup
Matrix: Solid									Ргер Тур	e: Tota	I/NA
Analysis Batch: 57224									Prep Ba	atch: 5	7168
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	0) %Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	988.4		mg/Kg		99	70 - 130	11	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	893.1	*1	mg/Kg		89	70 - 130	25	20
C10-C28)											
	LCSD I	.CSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	98		70 - 130								

Lab Sample ID: 890-4901-7 MS **Client Sample ID: FS07** Matrix: Solid Prep Type: Total/NA Analysis Batch: 57224 Prep Batch: 57168 Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <50.0 U F1 <50.1 U F1 F2 Gasoline Range Organics 999 mg/Kg -2 70 - 130 (GRO)-C6-C10 239 *1 F1 F2 999 235.9 F1 mg/Kg -0.3 70 - 130 Diesel Range Organics (Over C10-C28)

Eurofins Carlsbad

Page 251 of 268

Job ID: 890-4901-1 SDG: 03C1558252

QC Sample Results

Client: Ensolum Project/Site: Poker Lake Unit 147

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

MB MB

<5.00 U

Result Qualifier

Lab Sample ID: 890-4901-7 MS Matrix: Solid Analysis Batch: 57224

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	93		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4901-7 MSD Matrix: Solid

Lab Sample ID: MB 880-57126/1-A

Lab Sample ID: LCS 880-57126/2-A

Lab Sample ID: LCSD 880-57126/3-A

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analyte Chloride

Analyte

Chloride

Analysis Batch: 57174

Analysis Batch: 57224									Prep	Batch:	57168
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F1 F2	1000	1166	F2	mg/Kg		112	70 - 130	192	20
Diesel Range Organics (Over C10-C28)	239	*1 F1 F2	1000	1539	F2	mg/Kg		130	70 - 130	147	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	136	S1+	70 - 130								
o-Terphenyl	109		70 - 130								

Released to Imaging: 1/5/2024 3:07:17 PM

Client Sample ID: FS07

Prep Type: Total/NA

Page 252 of 268

Client Sample ID: Method Blank Prep Type: Soluble

Dil Fac Analyzed 07/07/23 12:35 1

Client Sample ID: Lab Control Sample Prep Type: Soluble

Analysis Batch: 57174								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	252.0		mg/Kg		101	90 - 110	

RL

5.00

Unit

mg/Kg

D

Prepared

Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Analysis Batch: 57174										
		Spike	LCSD	LCSD				%Rec		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	252.5		mg/Kg		101	90 - 110	0	20
							Client	Sample ID	: Matrix	Spike
Matrix: Solid								Prep	Type: So	oluble
Analysis Batch: 57174										
Sam	ple Sample	Spike	MS	MS				%Rec		

	Sample	Sample	Зріке	NIO	N/O				/onec		
9	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
e	4700	F1	2520	7523	F1	mg/Kg		112	90 - 110	 	
Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-30420-A-1-H M	SD					Cli	ent Sa	ample ID): Matrix Sp	pike Dup	olicate
Matrix: Solid									Prep	Type: Se	oluble
Analysis Batch: 57174											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	4700	F1	2520	7573	F1	mg/Kg		114	90 - 110	1	20
Lab Sample ID: 890-4902-A-1-B MS								Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep	Type: Se	oluble
Analysis Batch: 57174											
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	38.6		249	290.7		mg/Kg		101	90 - 110		
Lab Sample ID: 890-4902-A-1-C MS	D					Cli	ent Sa	ample ID): Matrix S	oike Dup	olicate
Matrix: Solid									Prep	Type: Se	oluble
Analysis Batch: 57174											
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
		o	A	Desult	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Analyte	Result	Qualifier	Added	Result	Quaimer	Unit	U	%Rec	Linnis	KFU	LIIIIII

QC Association Summary

Client: Ensolum Project/Site: Poker Lake Unit 147

5

Job ID: 890-4901-1 SDG: 03C1558252

GC VOA

Prep Batch: 57164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4901-1	SW12	Total/NA	Solid	5035	
890-4901-2	SW13	Total/NA	Solid	5035	
890-4901-3	FS04	Total/NA	Solid	5035	
890-4901-4	FS05	Total/NA	Solid	5035	
890-4901-5	SW11	Total/NA	Solid	5035	
890-4901-6	FS06	Total/NA	Solid	5035	
890-4901-7	FS07	Total/NA	Solid	5035	
MB 880-57164/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57164/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57164/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30453-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-30453-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 57167

690-4901-7	F307	TOTAI/INA	Solid	5035	
MB 880-57164/5-A	Method Blank	Total/NA	Solid	5035	8
LCS 880-57164/1-A	Lab Control Sample	Total/NA	Solid	5035	_
LCSD 880-57164/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	9
880-30453-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-30453-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
Analysis Batch: 57167					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4901-1	SW12	Total/NA	Solid	8021B	57164
890-4901-2	SW13	Total/NA	Solid	8021B	57164
890-4901-3	FS04	Total/NA	Solid	8021B	57164
890-4901-4	FS05	Total/NA	Solid	8021B	57164
890-4901-5	SW11	Total/NA	Solid	8021B	57164
890-4901-6	FS06	Total/NA	Solid	8021B	57164 14
890-4901-7	FS07	Total/NA	Solid	8021B	57164
MB 880-57164/5-A	Method Blank	Total/NA	Solid	8021B	57164
LCS 880-57164/1-A	Lab Control Sample	Total/NA	Solid	8021B	57164
LCSD 880-57164/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57164
880-30453-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	57164
880-30453-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57164

Analysis Batch: 57349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4901-1	SW12	Total/NA	Solid	Total BTEX	
890-4901-2	SW13	Total/NA	Solid	Total BTEX	
890-4901-3	FS04	Total/NA	Solid	Total BTEX	
890-4901-4	FS05	Total/NA	Solid	Total BTEX	
890-4901-5	SW11	Total/NA	Solid	Total BTEX	
890-4901-6	FS06	Total/NA	Solid	Total BTEX	
890-4901-7	FS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 57165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4901-1	SW12	Total/NA	Solid	8015NM Prep	
890-4901-2	SW13	Total/NA	Solid	8015NM Prep	
890-4901-3	FS04	Total/NA	Solid	8015NM Prep	
890-4901-4	FS05	Total/NA	Solid	8015NM Prep	
890-4901-5	SW11	Total/NA	Solid	8015NM Prep	
890-4901-6	FS06	Total/NA	Solid	8015NM Prep	
MB 880-57165/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57165/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57165/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

GC Semi VOA (Continued)

Prep Batch: 57165 (Continued)

ab Sample ID.	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
90-4895-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep		
90-4895-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep		
ep Batch: 57168						
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
90-4901-7	FS07	Total/NA	Solid	8015NM Prep		
/IB 880-57168/1-A	Method Blank	Total/NA	Solid	8015NM Prep		
.CS 880-57168/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep		
CSD 880-57168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep		
	FS07	Total/NA	Solid	8015NM Prep		
90-4901-7 MS						

Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch 890-4901-7 FS07 Total/NA Solid 8015B NM 57168 MB 880-57168/1-A Method Blank Total/NA Solid 8015B NM 57168 LCS 880-57168/2-A Total/NA Solid 57168 Lab Control Sample 8015B NM LCSD 880-57168/3-A Total/NA Lab Control Sample Dup Solid 8015B NM 57168 890-4901-7 MS FS07 Total/NA Solid 8015B NM 57168 890-4901-7 MSD FS07 Total/NA Solid 8015B NM 57168

Analysis Batch: 57301

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4901-1	SW12	Total/NA	Solid	8015 NM	
890-4901-2	SW13	Total/NA	Solid	8015 NM	
890-4901-3	FS04	Total/NA	Solid	8015 NM	
890-4901-4	FS05	Total/NA	Solid	8015 NM	
890-4901-5	SW11	Total/NA	Solid	8015 NM	
890-4901-6	FS06	Total/NA	Solid	8015 NM	
890-4901-7	FS07	Total/NA	Solid	8015 NM	

Analysis Batch: 57372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4901-1	SW12	Total/NA	Solid	8015B NM	57165
890-4901-2	SW13	Total/NA	Solid	8015B NM	57165
890-4901-3	FS04	Total/NA	Solid	8015B NM	57165
890-4901-4	FS05	Total/NA	Solid	8015B NM	57165
890-4901-5	SW11	Total/NA	Solid	8015B NM	57165
890-4901-6	FS06	Total/NA	Solid	8015B NM	57165
MB 880-57165/1-A	Method Blank	Total/NA	Solid	8015B NM	57165
LCS 880-57165/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57165
LCSD 880-57165/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57165
890-4895-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	57165
890-4895-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	57165

HPLC/IC

Leach Batch: 57126

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4901-1	SW12	Soluble	Solid	DI Leach	
890-4901-2	SW13	Soluble	Solid	DI Leach	

Job ID: 890-4901-1

Page 255 of 268

5

8

SDG: 03C1558252

QC Association Summary

Client: Ensolum Project/Site: Poker Lake Unit 147

HPLC/IC (Continued)

Leach Batch: 57126 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4901-3	FS04	Soluble	Solid	DI Leach	
890-4901-4	FS05	Soluble	Solid	DI Leach	
890-4901-5	SW11	Soluble	Solid	DI Leach	
890-4901-6	FS06	Soluble	Solid	DI Leach	
890-4901-7	FS07	Soluble	Solid	DI Leach	
MB 880-57126/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57126/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57126/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30420-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	
880-30420-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-4902-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4902-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 57174

LUS 880-57126/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-57126/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		8
880-30420-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach		
880-30420-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		9
890-4902-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach		
890-4902-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		
Analysis Batch: 57174						
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
890-4901-1	SW12	Soluble	Solid	300.0	57126	
890-4901-2	SW13	Soluble	Solid	300.0	57126	
890-4901-3	FS04	Soluble	Solid	300.0	57126	4.5
890-4901-4	FS05	Soluble	Solid	300.0	57126	13
890-4901-5	SW11	Soluble	Solid	300.0	57126	
890-4901-6	FS06	Soluble	Solid	300.0	57126	
890-4901-7	FS07	Soluble	Solid	300.0	57126	
MB 880-57126/1-A	Method Blank	Soluble	Solid	300.0	57126	
LCS 880-57126/2-A	Lab Control Sample	Soluble	Solid	300.0	57126	
LCSD 880-57126/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57126	
880-30420-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	57126	
880-30420-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	57126	
890-4902-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	57126	
890-4902-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	57126	

5 6 7

Job ID: 890-4901-1 SDG: 03C1558252

Job ID: 890-4901-1 SDG: 03C1558252

Lab Sample ID: 890-4901-1 Matrix: Solid

Lab Sample ID: 890-4901-3

Lab Sample ID: 890-4901-4

Matrix: Solid

Date Collected: 07/05/23 09:30 Date Received: 07/05/23 14:15

Project/Site: Poker Lake Unit 147 **Client Sample ID: SW12**

Client: Ensolum

	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	57164	07/07/23 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57167	07/07/23 23:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57349	07/10/23 15:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			57301	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 08:17	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57126	07/07/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57174	07/07/23 13:17	СН	EET MID

Client Sample ID: SW13

Date Collected: 07/05/23 09:35

Date Received: 07/05/23 14:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	57164	07/07/23 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57167	07/08/23 00:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57349	07/10/23 15:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			57301	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 08:39	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57126	07/07/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57174	07/07/23 13:22	СН	EET MID

Client Sample ID: FS04

Date Collected: 07/05/23 09:40

Date Received: 07/05/23 14:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57164	07/07/23 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57167	07/08/23 00:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57349	07/10/23 15:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			57301	07/12/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 09:00	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57126	07/07/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57174	07/07/23 13:37	CH	EET MID

Client Sample ID: FS05 Date Collected: 07/05/23 09:45 Date Received: 07/05/23 14:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57164	07/07/23 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57167	07/08/23 01:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57349	07/10/23 15:12	AJ	EET MID

Eurofins Carlsbad

9 Lab Sample ID: 890-4901-2 Matrix: Solid

5

Matrix: Solid

Job ID: 890-4901-1 SDG: 03C1558252

Lab Sample ID: 890-4901-4 Matrix: Solid

Date Collected: 07/05/23 09:45 Date Received: 07/05/23 14:15

Client Sample ID: FS05

Project/Site: Poker Lake Unit 147

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			57301	07/12/23 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 09:22	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57126	07/07/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57174	07/07/23 13:42	СН	EET MID

Client Sample ID: SW11 Date Collected: 07/05/23 09:50

Date Received: 07/05/23 14:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57164	07/07/23 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57167	07/08/23 01:21	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57349	07/10/23 15:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			57301	07/12/23 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 09:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57126	07/07/23 09:34	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57174	07/07/23 13:47	СН	EET MID

Client Sample ID: FS06

Date Collected: 07/05/23 10:00 Date Received: 07/05/23 14:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57164	07/07/23 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57167	07/08/23 01:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57349	07/10/23 15:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			57301	07/12/23 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57165	07/07/23 12:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57372	07/12/23 10:14	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57126	07/07/23 09:34	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	57174	07/07/23 13:52	CH	EET MID

Client Sample ID: FS07 Date Collected: 07/05/23 10:05

Date Received: 07/05/23 14:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57164	07/07/23 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57167	07/08/23 02:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57349	07/10/23 15:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			57301	07/10/23 12:23	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	9.98 g 1 uL	10 mL 1 uL	57168 57224	07/07/23 12:45 07/09/23 10:56	SM SM	EET MID EET MID

Eurofins Carlsbad

Lab Sample ID: 890-4901-6

Lab Sample ID: 890-4901-7

Matrix: Solid

Matrix: Solid

8 9

Lab Chronicle

Job ID: 890-4901-1 SDG: 03C1558252

Client Sample ID: FS07 Date Collected: 07/05/23 10:05 Date Received: 07/05/23 14:15

Project/Site: Poker Lake Unit 147

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			5.04 g	50 mL	57126	07/07/23 09:34	KS	EET MID	
Soluble	Analysis	300.0		1	50 mL	50 mL	57174	07/07/23 13:58	СН	EET MID	

Laboratory References:

Lab Sample ID: 890-4901-7 Matrix: Solid

		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: Poker Lake	e Unit 147			Job ID: 890-4901-1 SDG: 03C1558252	2
Laboratory: Eurofin Unless otherwise noted, all ar			raditation/contification holow		
Authority		Program	Identification Number	Expiration Date	
Texas		IELAP	T104704400-23-26	06-30-24	
The following analytes a	are included in this report	out the laboratory is not certif	ied by the governing authority. This list ma	av include analytes for which	5
the agency does not off			ied by the governing autionty. This list ha		
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					11
					13
					14

Eurofins Carlsbad

.

Method Summary

Client: Ensolum Project/Site: Poker Lake Unit 147 Job ID: 890-4901-1 SDG: 03C1558252

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 Refe	rences:		
ASTM = A	STM International		
EPA = US	Environmental Protection Agency		
SW846 =	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ed	ition, November 1986 And Its Updates.	
TAL SOP	= TestAmerica Laboratories, Standard Operating Procedure		
Laboratory R	eferences:		
EET MID :	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

Laboratory References:

Eurofins Carlsbad

Released to Imaging: 1/5/2024 3:07:17 PM

Client: Ensolum Project/Site: Poker Lake Unit 147 Job ID: 890-4901-1 SDG: 03C1558252

b Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
0-4901-1	SW12	Solid	07/05/23 09:30	07/05/23 14:15	0 - 4	
0-4901-2	SW13	Solid	07/05/23 09:35	07/05/23 14:15	0 - 4	
0-4901-3	FS04	Solid	07/05/23 09:40	07/05/23 14:15	12	
0-4901-4	FS05	Solid	07/05/23 09:45	07/05/23 14:15	12	
0-4901-5	SW11	Solid	07/05/23 09:50	07/05/23 14:15	4 - 12	
0-4901-6	FS06	Solid	07/05/23 10:00	07/05/23 14:15	12	
0-4901-7	FS07	Solid	07/05/23 10:05	07/05/23 14:15	12	
						- 2

		* 04	1.2.33 141	(.	T	Lee (se	5		いまで
Received by: (Signature) Date/Time		Relinquished by: (Signature)	Date/Time		Received by: (Signature)	Received	ature)	by: (Signa	Relinquished by: (Signature)
nditions e control y negotiated.	tors. It assigns standard terms and conditions les are due to circumstances beyond the control terms will be enforced unless previously negotiated	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$55.00 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 negotia	npany to Eurofins Xen losses or expenses in lubmitted to Eurofins X	se order from client co ly responsibility for any of \$5 for each sample :	utes a valid purcha shall not assume au oject and a charge	of samples constit t of samples and s applied to each pr	and relinquishment c jable only for the cos rge of \$85.00 will be a	is document enco will be l ninimum cha	Notice: Signature of thi of service. Eurofins Xe of Eurofins Xenco. A n
Ag SiO ₂ Na Sr TI Sn U V Zn Hg:1631/245.1/7470/7471	Pb Mg Mn Mo Ni K Se A Mo Ni Se Ag Ti U t	b As Ba Be B Cd Ca Cr Co Cu Fe Pb Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	b As Ba Be B Sb As Ba Be	RA 13PPM Texas 11 AI Sb TCLP / SPLP 6010: 8RCRA S	BRCRA 13PPM TCLP / SPLI		200.8 / 6020: al(s) to be analy:	6010 and Meta	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
					4		_		
			G						
PA.2022.08191.EXP.01			1 1	2	1005 12	1			F307
AFE:				12' 1					F506
1137341001				4-12 1	H 256				Swh
Cost Center:				2	21 56:6				FSOS
				2' 1	1 0hi6				FSOU
NRM2004445859				0-4 1 1	9:35 C	-			5125
Incident ID:				0-4 0 1	9:30 (7/5/23	5		51/12
Sample Comments			CHLOF TPH (8 BTEX (Depth Grab/ # of Comp Cont	Time Sampled	Date Sampled	n Matrix	entificatio	Sample Identification
NaUH+Ascorbic Acid: SAPC		004-060	015)	4, C	nperature:	Corrected Temperature:			Total Containers:
Zn Acetate+NaOH: Zn		_		н. Э	Reading:	Temperature Reading:			Sample Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃			PA:	ė	stor.	Correction Factor:	Yes No NIA		Cooler Custody Seals:
NaHSO4: NABIS			3000	arar		Thermometer ID:	Yes No	I Intact:	Samples Received Intact:
H ₃ PO ₄ : HP			0.0)	Yes No	Wet Ice:	(Yes No	Temp Blank:	EIPT	SAMPLE RECEIPT
2				L	the lab, if received by 4:30pm				PO#
HCL: HC HNO3: HN				av received by	TAT starts the day received by	nan	Connor Whitman		Sampler's Name
Cool: Cool MeOH: Me				_	Due Date:				Project Location:
None: NO DI Water: H ₂ O				Rush Code	Routine	2	03C1558252		Project Number:
Preservative Codes	REQUEST	ANALYSIS REC		ound	Turn Around	it 147	Poker Lake Unit 147		Project Name:
	Deliverables: EDD		Nobil.com	Email: Amy.Ruth@ExxonMobil.com	Email: A		303-887-2946	303-88	Phone:
	Reporting: Level II Leve	220	Carlsbad, NM 88220	City, State ZIP:	0		Carlsbad, NM 88220	Carlsb	City, State ZIP:
	State of Project:		3104 E. Green St	Address:	A	Iwy	3122 National Parks Hwy	3122 N	Address:
Program: UST/PST PRP Brownfields RRC Superfund	Program: UST/PST PR		XTO Energy	Company Name:	0		B	Ensolum	Company Name:
Work Order Comments	Wol		Amy Ruth	Bill to: (if different)	B		Tacoma Morrissey	Tacom	Project Manager:
www.xenco.com Page of	WWW.X	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	575) 392-7550, Carls	Hobbs, NM					
Work Order No:	Work O	Fousion, 1A (261) 440-4200, Deinas, 1A (214) 902-0000 Midiand, TX (432) 704-5440, San Antonio, TX (210) 509-3334 FL Paso TX (915) 585-2443, Lubbock, TX (806) 794-1296	(201) 240-4200, De (32) 704-5440, San A (915) 585-3443. Lub	Fi Paso TX	ing	Environment Testing Xenco			
Inder No:	Work O	ntonin, TX (210) 509-3334	((201) 240-4200, De (32) 704-5440, San A	Midland, TX (4	ing	iment Test			2

13

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4901 List Number: 1 Creator: Clifton, Cloe

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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) True Sample containers have legible labels. 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.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Job Number: 890-4901-1 SDG Number: 03C1558252

List Source: Eurofins Carlsbad

Eurofins Carlsbad *Released to Imaging: 1/5/2024 3:07:17 PM* N/A

True

N/A

14

Job Number: 890-4901-1 SDG Number: 03C1558252

List Source: Eurofins Midland

List Creation: 07/07/23 10:52 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4901 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	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").



APPENDIX D

NMOCD Correspondence

From:	Collins, Melanie
То:	<u>ocd.enviro (ocd.enviro@emnrd.nm.gov); Bratcher, Michael, EMNRD (mike.bratcher@emnrd.nm.gov); Hamlet,</u> Robert, EMNRD (Robert.Hamlet@emnrd.nm.gov); Harimon, Jocelyn, EMNRD (Jocelyn.Harimon@emnrd.nm.gov)
Cc:	DelawareSpills /SM; Ben Belill; Green, Garrett J
Subject:	XTO - Sampling Notification (Week of 6/26/23 - 6/30/23)
Date:	Wednesday, June 21, 2023 5:35:44 PM
Attachments:	image001.png

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of June 26, 2023.

Monday

- PLU 224 / nAPP2310050120
- PLU 183Q / nAPP2315133557

Tuesday

- PLU 183Q / nAPP2315133557
- PLU 224 / nAPP2310050120

Wednesday

• PLU 147 / NRM2004445859

Thursday

• PLU 147 / NRM2004445859

Thank you,

Melaníe Collíns



Environmental Technician melanie.collins@exxonmobil.com 432-556-3756

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

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

District III

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

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

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

CONDITIONS

XTO ENERGY, INC 6401 Holiday Hill Road	5380 Action Number:
Midland, TX 79707	257415 Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NRM2004445859 POKER LAKE UNIT 147, thank you. This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc, will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	1/5/2024

CONDITIONS

Page 268 of 268

Action 257415