



March 12, 2026

New Mexico Oil Conservation Division

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

**Re: Reclamation Report
Poker Lake Unit 183Q
Incident Number nAPP2315133557
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc (XTO), has prepared the following *Reclamation Report* for the Poker Lake Unit 183Q (Site). This *Reclamation Report* documents the Site history, reclamation activities completed to date, and proposes a vegetation monitoring plan.

BACKGROUND

The Site is located in Unit O, Section 6, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.24083°, -103.91910°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On May 15, 2023, external corrosion on a surface flowline caused approximately 3.29 barrels (bbls) of crude oil and 14.02 bbls of produced water to release along the edge of an access road and pasture area, and onto a pipeline right-of-way (ROW). A vacuum truck was immediately dispatched and recovered approximately 1.9 bbls of crude oil and 8.1 bbls of produced water. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on May 25, 2023. The release was assigned Incident Number nAPP2315133557.

Delineation and excavation of impacted soil was completed at the Site between June 6 and July 18, 2023. The final excavation measured approximately 1,385 square feet. A total of approximately 260 cubic yards of impacted soil were removed during the excavation activities. Based on the delineation and excavation soil sample analytical results, a *Closure Request* was submitted to the NMOCD on August 11, 2023. NMOCD approved the *Closure Request* on January 17, 2024. Additional details regarding the release, Site Characterization, delineation and excavation activities, and soil sample analytical results can be referenced in the approved *Closure Request* attached as an appendix in this report. Remediation of the release was completed in accordance with Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

RECLAMATION ACTIVITIES

Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled and the disturbed area was restored to its original condition. The excavation area in the

XTO Energy, Inc
Reclamation Report
Poker Lake Unit 183Q

pasture was backfilled with locally procured topsoil. Following backfill activities, the disturbed area was graded and contoured to match the surrounding topography. The release extent, excavation extent, and reclamation area are shown on the attached Figure 1.

One representative 5-point composite sample (BF01) was collected from the topsoil backfill material on June 20, 2025. The backfill soil sample was transported under strict chain-of-custody procedures to Cardinal Laboratories in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B; total petroleum hydrocarbons (TPH)–gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method 4500.

Laboratory analytical results for the backfill soil sample confirmed compliance with NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with BTEX concentrations less than 50 milligrams per kilogram (mg/kg), chloride concentrations less than 600 mg/kg and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized in the attached Table 1 and the complete laboratory analytical report is included as Appendix A. Photographic documentation of the current Site condition is included in Appendix B.

The pasture area will be seeded during the Spring of 2026, when temperatures and precipitation are conducive to vegetation growth. The Site will be seeded with the below BLM seed mix #2 for sandy sites at the rate specified in pounds of pure live seed (PLS) per acre.

Species/Cultivar	PLS/Acre
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sand love grass (<i>Fragrostis trichodes</i>)	1.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

The seed mix will be applied via drill seeding or broadcast seeding. If broadcast seeding is selected, the PLS/acre will be doubled, and the seed will be covered by chaining or harrowing the Site.

VEGETATION MONITORING

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

- Annual inspections will take place at the location to assess revegetation progress until vegetation is consistent with local natural vegetation density.
- If necessary, an additional application of the BLM seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by licensed contracted herbicide applicator or mechanically removed.

A *Revegetation Report* will be submitted to the NMOCD once vegetation growth in the reclaimed pasture area has uniform vegetative cover that reflects a life-form ratio of plus or minus 50 percent (%) of pre-disturbance levels and a total percent plant cover of at least 70% of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

RECLAMATION APPROVAL REQUEST

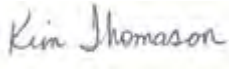
The approved August 11, 2023, *Closure Request* is included in Appendix C. Based on the reclamation activities completed to date and proposed vegetation monitoring plan described above, XTO respectfully

XTO Energy, Inc
Reclamation Report
Poker Lake Unit 183Q

requests approval of this *Reclamation Report* and a status update to *Reclamation Report Approved, Pending submission of Re-Vegetation Report* for Incident nAPP2315133557.

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

Sincerely,
Ensolum, LLC



Kim Thomason
Senior Technician



Aimee Cole
Senior Managing Scientist

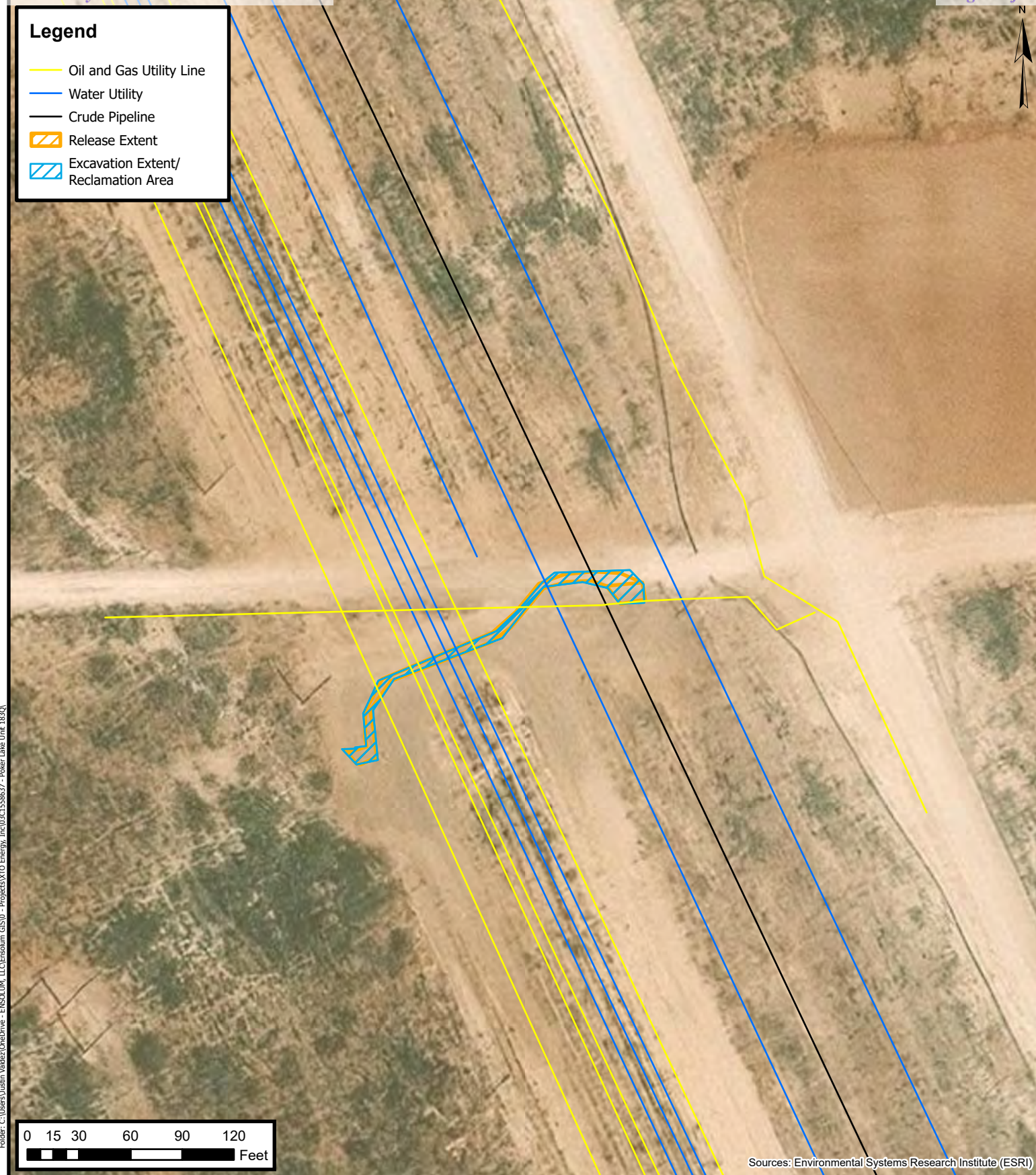
cc: Robert Woodall, XTO
Richard Kotzur, XTO
Quan Tran, XTO
Bureau of Land Management

Appendices:

Figure 1	Area of Reclamation
Table 1	Backfill Soil Sample Analytical Results
Appendix A	Laboratory Analytical Report & Chain of Custody Documentation
Appendix B	Photographic Log
Appendix C	August 11, 2023, <i>Closure Request</i>



FIGURES



Reclamation Area

XTO Energy, Inc.
Poker Lake Unit 183Q
Incident Number: nAPP2315133557
Unit O, Section 06, T 24S, R 30E
Eddy County, New Mexico

FIGURE

1



TABLES



TABLE 1 BACKFILL SOIL SAMPLE ANALYTICAL RESULTS Poker Lake Unit 183Q XTO Energy, Inc. Eddy County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclamation Requirement			10	50	NE	NE	NE	NE	100	600
Backfill Soil Sample										
BF01	6/20/2025	Surface	<0.050	<0.300	<10.0	85.5	12.4	85.5	97.9	16.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A

Laboratory Analytical Reports & Chain of Custody Documentation



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

June 27, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 183 Q - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 06/23/25 12:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 06/23/2025
 Reported: 06/27/2025
 Project Name: PLU 183 Q - SPILLS
 Project Number: 03C1558637
 Project Location: XTO 32.24083-103.91911

Sampling Date: 06/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BF 01 0' (H253749-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2025	ND	2.02	101	2.00	0.403	
Toluene*	<0.050	0.050	06/25/2025	ND	2.06	103	2.00	0.355	
Ethylbenzene*	<0.050	0.050	06/25/2025	ND	2.10	105	2.00	0.309	
Total Xylenes*	<0.150	0.150	06/25/2025	ND	6.16	103	6.00	0.340	
Total BTX	<0.300	0.300	06/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2025	ND	224	112	200	3.59	
DRO >C10-C28*	85.5	10.0	06/24/2025	ND	214	107	200	5.83	
EXT DRO >C28-C36	12.4	10.0	06/24/2025	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.2 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



7-7

Page 4 of 4



APPENDIX B

Photographic Log



Photographic Log
 XTO Energy, Inc
 Poker Lake Unit 183Q
 nAPP2315133557

59°NE (T) • 32.240707, -103.919218 ±5m ▲ 976m



Photograph: 1 Date: 6/20/2025
 Description: Backfill activities
 View: Northeast

245°SW (T) • 32.240707, -103.919218 ±5m ▲ 976m



Photograph: 2 Date: 6/20/2025
 Description: Backfill activities
 View: Southwest

221°SW (T) • 32.240707, -103.919218 ±5m ▲ 976m



Photograph: 3 Date: 6/20/2025
 Description: Backfill activities
 View: Southwest

44°NE (T) • 32.240707, -103.919218 ±1m ▲ 976m



Photograph: 4 Date: 6/20/2025
 Description: Backfill activities
 View: Northeast



APPENDIX C

August 8, 2023, *Closure Request*



August 11, 2023

New Mexico Oil Conservation Division

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

**Re: Closure Request
Poker Lake Unit 183Q
Incident Number NAPP2315133557
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 assessment, excavation, and soil sampling activities at the Poker Lake Unit 183Q (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to assess for the presence or absence of impacts to soil following a produced water and crude oil release at the Site. Based on excavation activities and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2315133557.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 6, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.24083°, -103.91910°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 15, 2023, external corrosion on a surface flowline caused approximately 3.29 barrels (bbls) of crude oil and 14.02 bbls of produced water to release along the edge of an access road and pasture area, and onto a pipeline right-of-way (ROW). A vacuum truck was immediately dispatched and recovered approximately 1.9 bbls of crude oil and 8.1 bbls of produced water. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on May 25, 2023. The release was assigned Incident Number NAPP2315133557.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of 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. Potential Site receptors are identified on Figure 1.

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 the New Mexico Office of the State Engineer (OSE) well C-4526, located approximately 0.27 miles north of the Site. The groundwater well has a reported total depth of greater than 105 feet bgs drilled via hollow stem auger. The borehole was drilled in May 2021 and no groundwater was encountered. The Well Record and Log is included in Appendix A. All wells used to determine depth to groundwater are depicted on Figure 1.

XTO Energy, Inc
Closure Request
Poker Lake Unit 183Q

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 4,108 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 from 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).

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

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture/ROW area of where the release extent occurred, per 19.15.29.13.D (1) NMAC.

SITE ASSESSMENT ACTIVITIES

On July 7, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Three delineation soil samples (SS01 through SS03) were collected within the release extent at a depth of 0.5 feet bgs to assess for the presence of absence of soil impacted soil. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photo documentation was conducted during the Site visits and a photographic log is included in Appendix B.

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 COCs: BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they were collected may not have equilibrated to 6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition by the laboratory.

Laboratory analytical results for delineation samples SS01 through SS03 indicated TPH and chloride concentrations exceeded the Site Closure Criteria and/or reclamation requirement. Based on the presence of impacted soil, additional delineation and excavation activities were warranted.

DELINEATION AND EXCAVATION ACTIVITIES

From June 26, through June 29, 2023, Ensolum personnel returned to the Site to oversee additional delineation and excavation of impacted soil. Three potholes (PH01 through PH03) were advanced by

XTO Energy, Inc
Closure Request
Poker Lake Unit 183Q

use of heavy equipment at the locations of delineation samples SS01 through SS03, respectively. Discrete delineation soil samples were collected from each pothole at the terminal depth, which ranged from 3 feet to 6 feet bgs. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs and are included in Appendix C. The delineation soil samples were field screened, handled, and analyzed as described above. The delineation soil sample locations are depicted on Figure 2.

TPH- and chloride-impacted soil was excavated from the release area. Excavation activities were performed utilizing a backhoe and transport vehicles. To direct excavation activities, soil was field screened for VOCs and chloride.

Following removal of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS10 were collected from the floor of the excavation at depths ranging from 2 feet to 6 feet bgs. Confirmation soil samples SW01 through SW09 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 6 feet bgs. All excavation confirmation soil samples collected were handled and analyzed following the same procedures as described above. The excavation extent and excavation confirmation soil sample locations are presented on Figure 3. Photographic documentation of the excavation is included in Appendix B.

Laboratory analytical results indicated the presence of elevated chloride concentrations at confirmation soil samples SW01 and SW02. On July 18, 2023, additional excavation activities were conducted in those locations. Following the removal of impacted soil, confirmation composite soil samples SW10 and SW11 were collected. Soil sample locations for SW10 and SW11 are presented on Figure 3.

The final excavation extent measured approximately 1,385 square feet. A total of approximately 260 cubic yards of impacted soil was removed during excavation activities. The impacted soil was transported and properly disposed of at R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation confirmation soil samples collected from the final excavation extent (FS01 through FS10 and SW03 through SW11) indicated all COC concentrations were compliant with the Site Closure Criteria and/or the reclamation requirement. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D. Notification of sampling events are included in Appendix E.

CLOSURE REQUEST

Site assessment, delineation, and excavation activities were conducted at the Site to address the May 15, 2023 release of crude oil and produced water. Laboratory analytical results for all excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the Site Closure Criteria and/or reclamation requirement. Based on laboratory analytical results, no further remediation was required. The release is fully defined laterally through the collection of composite sidewall samples SW03 through SW11, and vertically through the collection of delineation soil samples PH01 through PH03 and composite floor samples FS01 through FS10. XTO will backfill the excavation with topsoil material and recontour the Site to match pre-existing Site conditions. Following backfill completion, the disturbed area will be re-seeded with the recommended BLM Seed Mixture Type.

XTO Energy, Inc
Closure Request
Poker Lake Unit 183Q

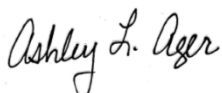
Excavation of soil has mitigated impacts at this Site. Depth to groundwater is confirmed to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2315133557.

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

Sincerely,
Ensolum, LLC



Benjamin J. Belill
Project Geologist



Ashley L. Ager, MS, PG
Principal

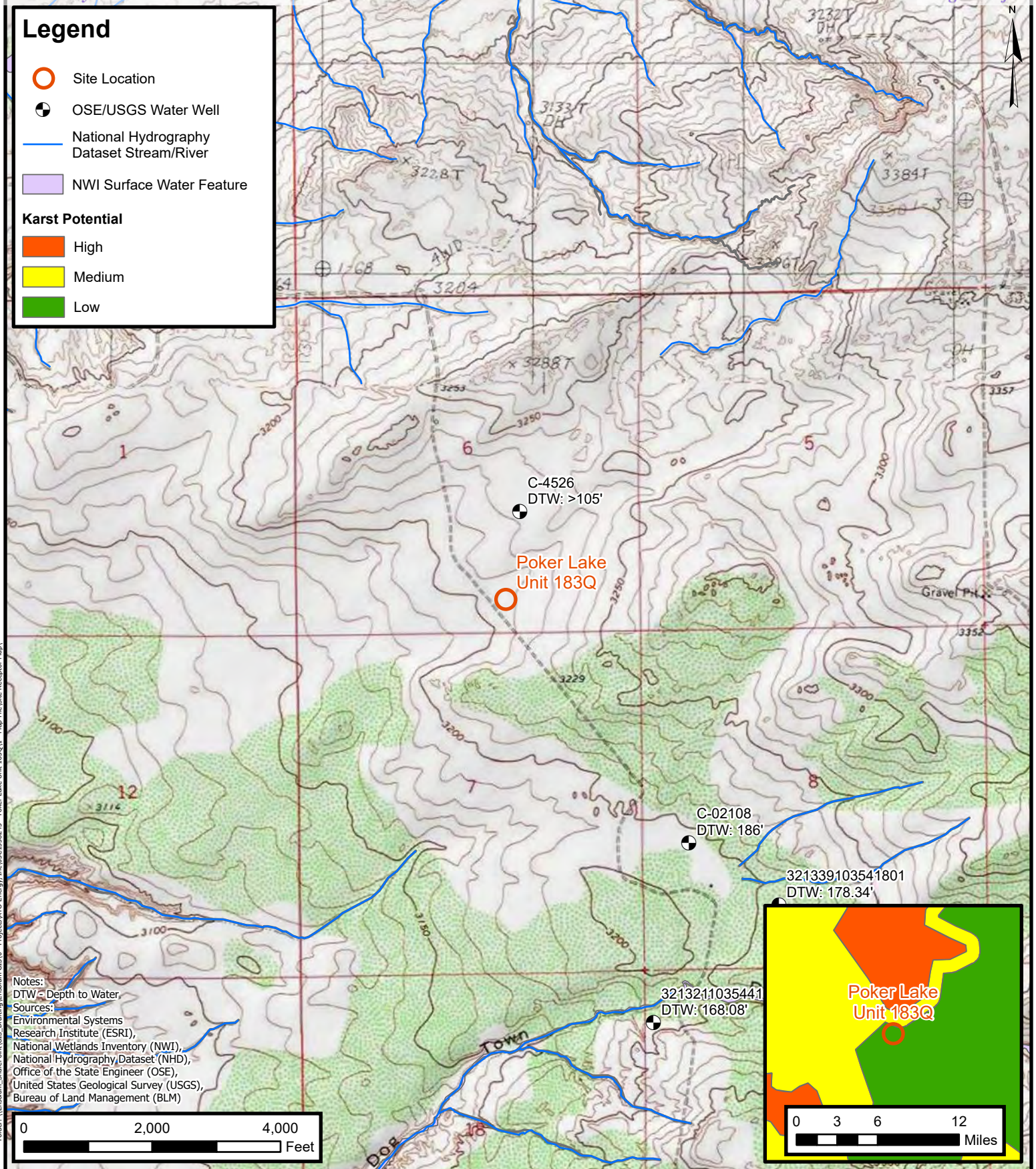
cc: Garrett Green, XTO
Shelby Pennington, XTO
BLM

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithology Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications/Correspondence



FIGURES



Legend

-  Point of Release (POR)
-  Release Extent
-  Delineation soil sample with concentrations previously exceeding closure criteria



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria
 Samples in grey indicate samples were removed during excavation activities.

0 25 50
 Feet

Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

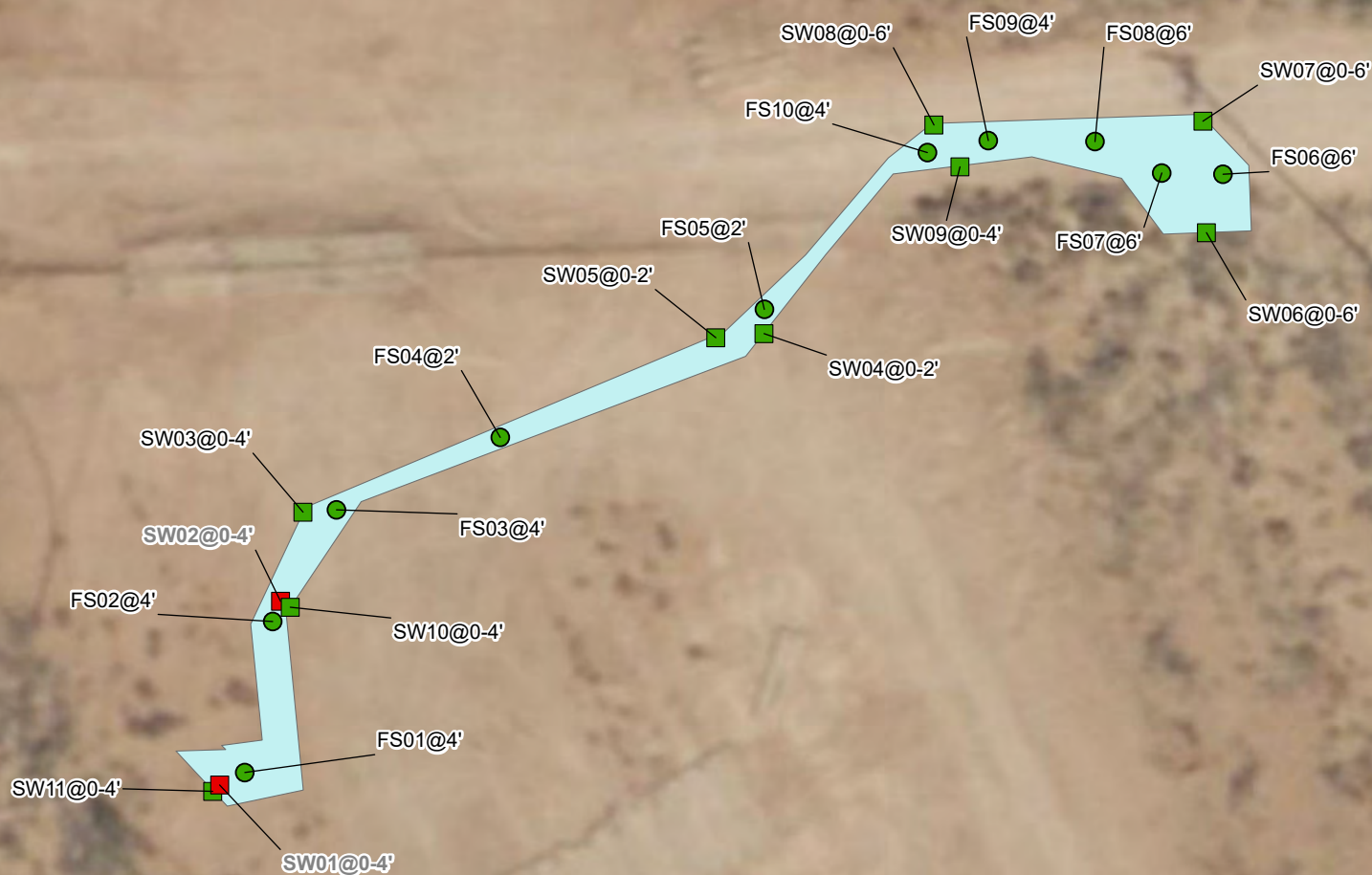
XTO Energy, Inc
 Poker Lake Unit 183Q
 Incident Number: nAPP2315133557
 Unit O, Sec 6, T24S, R30E
 Eddy County, New Mexico

FIGURE

2

Legend

- Excavation Extent
- Excavation sidewall soil sample concentrations exceed Closure Criteria
- Excavation sidewall soil sample in compliance with Closure Criteria
- Excavation floor soil sample in compliance with Closure Criteria



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria
 Samples in grey indicate samples were removed during excavation activities.

0 25 50
 Feet

Sources: Environmental Systems Research Institute (ESRI)



Excavation Soil Sample Locations

XTO Energy, Inc
 Poker Lake Unit 183Q
 Incident Number: nAPP2315133557
 Unit O, Sec 6, T24S, R30E
 Eddy County, New Mexico

FIGURE

3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Poker Lake Unit 183Q 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 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	06/06/2023	0-5	<0.00202	0.263	<250	3,980	<250	3,980	3,980	3,110
PH01	06/23/2023	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	529
PH01A	06/23/2023	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	272
SS02	06/06/2023	0-5	<0.00198	<0.00396	<49.9	639	<49.9	639	639	365
PH02	06/26/2023	3	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	138
SS03	06/06/2023	0-5	<0.00200	<0.101	<50.0	533	<50.0	533	533	18,600
PH03	06/27/2023	6	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	14,800
Confirmation Soil Samples										
FS01	06/26/2023	4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	68.0
FS02	06/26/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	94.0
FS03	06/26/2023	4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	136
FS04	06/26/2023	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	57.7
FS05	06/26/2023	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	84.3
FS06	06/27/2023	6	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	10,600
FS07	06/27/2023	6	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	15,500
FS08	06/29/2023	6	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	8,540
FS09	06/29/2023	4	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	74.4
FS10	06/29/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	71.2
SW01	06/26/2023	0 - 4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	1,480
SW02	06/26/2023	0 - 4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	737
SW03	06/26/2023	0 - 4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	133
SW04	06/26/2023	0 - 2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	39.1
SW05	06/26/2023	0 - 2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	50.3
SW06	06/29/2023	0 - 6	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	149
SW07	06/29/2023	0 - 6	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	477
SW08	06/29/2023	0 - 6	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	53.3
SW09	06/29/2023	0 - 4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	178
SW10	07/18/2023	0 - 4	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	69.2
SW11	07/18/2023	0 - 4	<0.00202	<0.00404	<50.4	<50.4	<50.4	<50.4	<50.4	70.3

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



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (MW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4526			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32°	MINUTES 14'	SECONDS 42.15" N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103°	55'	6.20" W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NE Sec. 06 T24S R30E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 05/14/2021		DRILLING ENDED 05/14/2021		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	C-4526	POD NO.	1	TRN NO.	692109
LOCATION	Expl	24S.30E.6.414	WELL TAG ID NO.	03101010102021	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
4. HYDROGEOLOGIC LOG OF WELL	0	4	4	SAND, poorly graded, fine-very grained, Reddish-brown, dry	Y ✓ N		
	4	12	8	CALICHE, poorly-mod. consolidated, tan-off white, dry	Y ✓ N		
	12	19	7	SAND, poorly graded, fine-very grained, some caliche gravel, Tan ,dry	Y ✓ N		
	19	24	5	SAND, poorly graded, fine-very grained, some caliche gravel, Light- Brown, dry	Y ✓ N		
	24	72	48	SAND, poorly graded, fine-very grained, Reddish Brown, moist	Y ✓ N		
	72	92	20	SAND, poorly graded, fine-very grained, some silt, Reddish Brown, moist	Y ✓ N		
	92	102	10	SILTY SAND, poorly graded, fine-very grained, Reddish Brown, moist	Y ✓ N		
	102	105	3	SILTY SAND, poorly graded, fine-very grained, Reddish Brown, dry	Y ✓ N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):	0.00
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.							
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt							
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:						
	<i>Jack Atkins</i>			Jackie D. Atkins	06/09/2021		
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME				DATE		

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO.	C-4526	POD NO.	1
LOCATION		TRN NO.	692109
		WELL TAG ID NO	PAGE 2 OF 2

CSE DTI JUN 10 2021 14:47



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc

Poker Lake Unit 183Q

Incident Number NAPP2315133557



Photograph 1

Date: 6/6/2023

Description: Site assessment activities, release extent.

View: West



Photograph 2

Date: 6/6/2023

Description: Site assessment activities, release extent.

View: Northeast

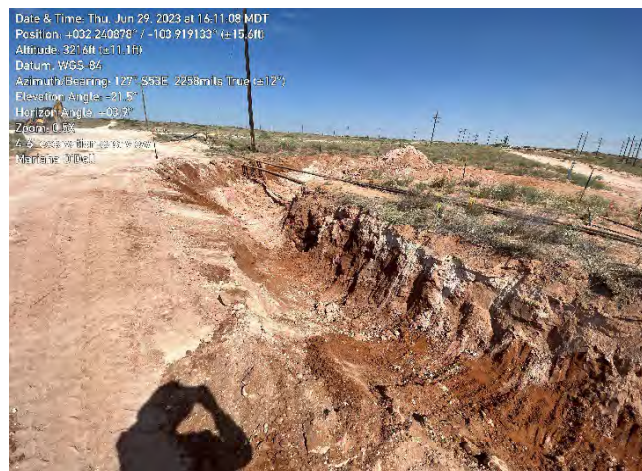


Photograph 3

Date: 6/26/2023

Description: Excavation activities, near SS02/PH02.

View: West



Photograph 4

Date: 6/29/2023

Description: Excavation activities, near SS01/PH01.

View: East



Photographic Log

XTO Energy, Inc

Poker Lake Unit 183Q

Incident Number NAPP2315133557



Photograph 5

Date: 6/29/2023

Description: Excavation activities, near release point.

View: West



Photograph 6

Date: 7/18/2023

Description: Excavation activities, near SS01/PH01.

View: Northeast

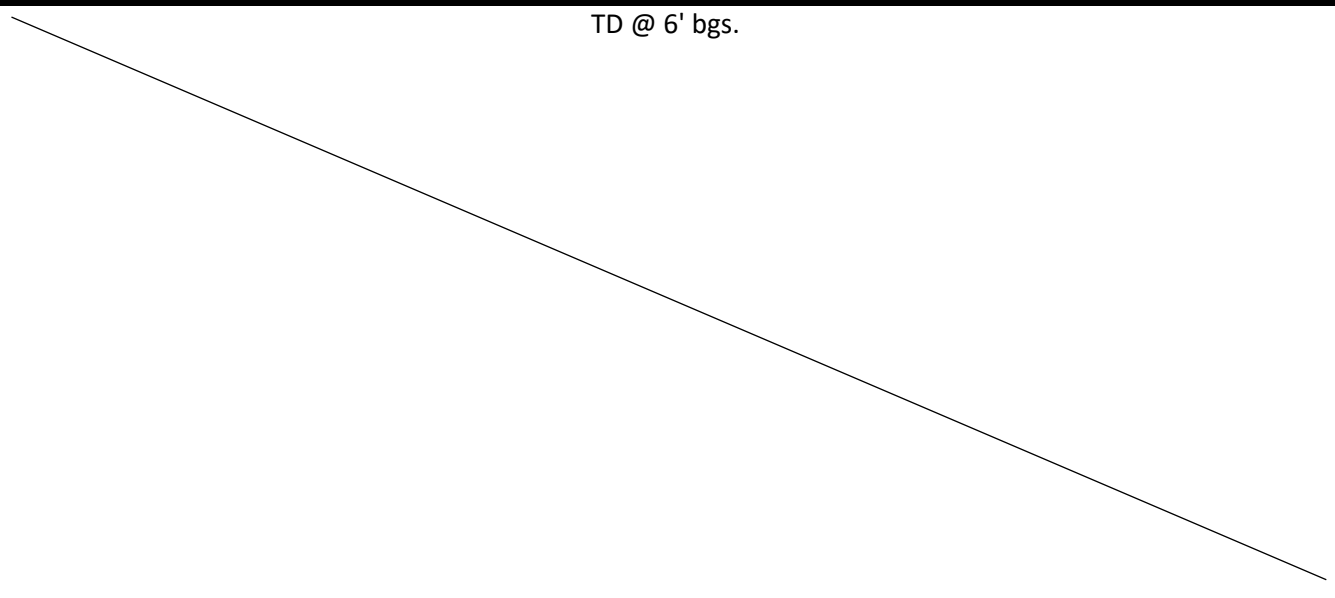


APPENDIX C

Lithologic Soil Sampling Logs

 ENSOLUM		Sample Name: PH01		Date: 06/23/2023				
		Site Name: Poker Lake Unit 183Q						
		Incident Number: nAPP2315133557						
		Job Number: 03C1588243						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.240539, -103.919519			Logged By: Mariaha O'Dell		Method: Backhoe			
			Hole Diameter: N/A		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All Chloride measurements done with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	2,402	527.8	Y	SS01	0.5	0		
D	5,365	56.1	N	PH01	1	1	SW	Reddish brown Sand, vf-f grained, well graded
D	3,293	29.7	N		2	2		
D	<179	36.6	N		3	3		
D	<179	0.0	N	PH01A	4	4	SW	Reddish brown Sand, vf-f grained, well graded Trace CCHE
						TD @ 4' bgs		

 ENSOLUM		Sample Name: PH02		Date: 06/26/2023				
		Site Name: Poker Lake Unit 183Q						
		Incident Number: nAPP2315133557						
		Job Number: 03C1588243						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.240684, -103.919406			Logged By: Mariaha O'Dell		Method: Backhoe			
			Hole Diameter: N/A		Total Depth: 3'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All Chloride measurements done with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	364	39.6	Y	SS02	0.5	0	SW	Reddish brown Sand, vf-f grained, well graded. DRY
D	<179	0.0	N		1	1		
D	<179	6.6	N		2	2		
D	<179	1.9	N	PH02	3	3		
TD @ 3' bgs								

 ENSOLUM		Sample Name: PH03		Date: 06/27/2023				
		Site Name: Poker Lake Unit 183Q						
		Incident Number: nAPP2315133557						
		Job Number: 03C1588243						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.240816, -103.919048			Logged By: Mariaha O'Dell		Method: Backhoe			
			Hole Diameter: N/A		Total Depth: 6'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All Chloride measurements done with a +40% correction factor.								
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	17,466	224.6	Y	SS03	0.5	0	SW	Reddish brown Sand, vf-f grained, well graded. DRY
D	6,821	1,695	N		1	1		
D	8,014	93.7	N		2	2		
D	4,553	5.4	N		3	3		
D	17,466	0.6	N	PH03	4	4	CCHE	CALICHE, dry, off white-tan, moderately consolidated, no stain, no odor.
D	26,768	0.0	N		5	5		
D	13,233	0.0	N		6	6		
TD @ 6' bgs. 								



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 6/13/2023 11:58:56 AM

JOB DESCRIPTION

Poker Lake Unit 183Q
SDG NUMBER 03C1588243

JOB NUMBER

890-4787-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
6/13/2023 11:58:56 AM

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

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Laboratory Job ID: 890-4787-1
SDG: 03C1588243

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Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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	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
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)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

Job ID: 890-4787-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4787-1

Receipt

The samples were received on 6/6/2023 3:42 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 2.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4787-1), SS02 (890-4787-2) and SS03 (890-4787-3).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-55034 and analytical batch 880-55086 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS01 (890-4787-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-55034/2-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-55158/2-A) and (LCSD 880-55158/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

Client Sample ID: SS01

Lab Sample ID: 890-4787-1

Date Collected: 06/06/23 09:50

Matrix: Solid

Date Received: 06/06/23 15:42

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/08/23 12:22	06/10/23 13:25	1
Toluene	0.0168		0.00202	mg/Kg		06/08/23 12:22	06/10/23 13:25	1
Ethylbenzene	0.0567		0.00202	mg/Kg		06/08/23 12:22	06/10/23 13:25	1
m-Xylene & p-Xylene	0.0525		0.00403	mg/Kg		06/08/23 12:22	06/10/23 13:25	1
o-Xylene	0.137		0.00202	mg/Kg		06/08/23 12:22	06/10/23 13:25	1
Xylenes, Total	0.190		0.00403	mg/Kg		06/08/23 12:22	06/10/23 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	229	S1+	70 - 130	06/08/23 12:22	06/10/23 13:25	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/08/23 12:22	06/10/23 13:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.263		0.00403	mg/Kg			06/10/23 18:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3980		250	mg/Kg			06/13/23 12:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250	mg/Kg		06/09/23 14:01	06/13/23 07:19	5
Diesel Range Organics (Over C10-C28)	3980		250	mg/Kg		06/09/23 14:01	06/13/23 07:19	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		06/09/23 14:01	06/13/23 07:19	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	06/09/23 14:01	06/13/23 07:19	5
o-Terphenyl	101		70 - 130	06/09/23 14:01	06/13/23 07:19	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3110		24.8	mg/Kg			06/09/23 13:00	5

Client Sample ID: SS02

Lab Sample ID: 890-4787-2

Date Collected: 06/06/23 09:55

Matrix: Solid

Date Received: 06/06/23 15:42

Sample Depth: 0.5'

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		06/08/23 12:22	06/10/23 14:22	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/08/23 12:22	06/10/23 14:22	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/08/23 12:22	06/10/23 14:22	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/08/23 12:22	06/10/23 14:22	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/08/23 12:22	06/10/23 14:22	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/08/23 12:22	06/10/23 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	06/08/23 12:22	06/10/23 14:22	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

Client Sample ID: SS02

Lab Sample ID: 890-4787-2

Date Collected: 06/06/23 09:55

Matrix: Solid

Date Received: 06/06/23 15:42

Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	115		70 - 130	06/08/23 12:22	06/10/23 14:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			06/10/23 18:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	639		49.9	mg/Kg			06/13/23 12:05	1

Method: SW846 8015B NM - Diesel Range Organics (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		06/09/23 14:01	06/13/23 07:42	1
Diesel Range Organics (Over C10-C28)	639		49.9	mg/Kg		06/09/23 14:01	06/13/23 07:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/09/23 14:01	06/13/23 07:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			06/09/23 14:01	06/13/23 07:42	1
o-Terphenyl	101		70 - 130			06/09/23 14:01	06/13/23 07:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	365		4.95	mg/Kg			06/09/23 13:05	1

Client Sample ID: SS03

Lab Sample ID: 890-4787-3

Date Collected: 06/06/23 10:00

Matrix: Solid

Date Received: 06/06/23 15:42

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/08/23 12:22	06/10/23 14:42	1
Toluene	0.00743		0.00200	mg/Kg		06/08/23 12:22	06/10/23 14:42	1
Ethylbenzene	0.0215		0.00200	mg/Kg		06/08/23 12:22	06/10/23 14:42	1
m-Xylene & p-Xylene	0.0499		0.00400	mg/Kg		06/08/23 12:22	06/10/23 14:42	1
o-Xylene	0.0221		0.00200	mg/Kg		06/08/23 12:22	06/10/23 14:42	1
Xylenes, Total	0.0720		0.00400	mg/Kg		06/08/23 12:22	06/10/23 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	06/08/23 12:22	06/10/23 14:42	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/08/23 12:22	06/10/23 14:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.101		0.00400	mg/Kg			06/10/23 18:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	533		50.0	mg/Kg			06/13/23 12:05	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

Client Sample ID: SS03
Date Collected: 06/06/23 10:00
Date Received: 06/06/23 15:42
Sample Depth: 0.5'

Lab Sample ID: 890-4787-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (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		06/09/23 14:01	06/13/23 08:05	1	
Diesel Range Organics (Over C10-C28)	533		50.0	mg/Kg		06/09/23 14:01	06/13/23 08:05	1	
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/09/23 14:01	06/13/23 08:05	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	92		70 - 130			06/09/23 14:01	06/13/23 08:05	1	
o-Terphenyl	95		70 - 130			06/09/23 14:01	06/13/23 08:05	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	18600		101	mg/Kg			06/09/23 13:11	20	

Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-29060-A-8-C MS	Matrix Spike	86	113
880-29060-A-8-D MSD	Matrix Spike Duplicate	110	102
890-4787-1	SS01	229 S1+	100
890-4787-2	SS02	89	115
890-4787-3	SS03	118	99
LCS 880-55034/1-A	Lab Control Sample	100	114
LCSD 880-55034/2-A	Lab Control Sample Dup	66 S1-	109
MB 880-54980/5-A	Method Blank	73	94
MB 880-55034/5-A	Method Blank	76	94
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-29311-A-121-C MS	Matrix Spike	99	94
880-29311-A-121-D MSD	Matrix Spike Duplicate	101	95
890-4787-1	SS01	98	101
890-4787-2	SS02	94	101
890-4787-3	SS03	92	95
LCS 880-55158/2-A	Lab Control Sample	24 S1-	20 S1-
LCSD 880-55158/3-A	Lab Control Sample Dup	24 S1-	19 S1-
MB 880-55158/1-A	Method Blank	97	118
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-54980/5-A

Matrix: Solid

Analysis Batch: 55086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54980

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/07/23 13:56	06/09/23 21:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/07/23 13:56	06/09/23 21:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/07/23 13:56	06/09/23 21:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/07/23 13:56	06/09/23 21:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/07/23 13:56	06/09/23 21:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/07/23 13:56	06/09/23 21:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	06/07/23 13:56	06/09/23 21:41	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/07/23 13:56	06/09/23 21:41	1

Lab Sample ID: MB 880-55034/5-A

Matrix: Solid

Analysis Batch: 55086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55034

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/08/23 12:22	06/10/23 08:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/08/23 12:22	06/10/23 08:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/08/23 12:22	06/10/23 08:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/08/23 12:22	06/10/23 08:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/08/23 12:22	06/10/23 08:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/08/23 12:22	06/10/23 08:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	06/08/23 12:22	06/10/23 08:16	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/08/23 12:22	06/10/23 08:16	1

Lab Sample ID: LCS 880-55034/1-A

Matrix: Solid

Analysis Batch: 55086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1259		mg/Kg		126	70 - 130
Toluene	0.100	0.09996		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.09424		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1846		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09812		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: LCSD 880-55034/2-A

Matrix: Solid

Analysis Batch: 55086

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55034

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1283		mg/Kg		128	70 - 130	2	35

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

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

Lab Sample ID: LCSD 880-55034/2-A

Matrix: Solid

Analysis Batch: 55086

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55034

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09461		mg/Kg		95	70 - 130	5	35
Ethylbenzene	0.100	0.08192		mg/Kg		82	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1503		mg/Kg		75	70 - 130	21	35
o-Xylene	0.100	0.07379		mg/Kg		74	70 - 130	28	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-29060-A-8-C MS

Matrix: Solid

Analysis Batch: 55086

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 55034

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U F1	0.101	0.1356	F1	mg/Kg		134	70 - 130
Toluene	<0.00198	U	0.101	0.1031		mg/Kg		102	70 - 130
Ethylbenzene	<0.00198	U	0.101	0.08981		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.202	0.1747		mg/Kg		86	70 - 130
o-Xylene	<0.00198	U	0.101	0.08688		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-29060-A-8-D MSD

Matrix: Solid

Analysis Batch: 55086

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 55034

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0994	0.1273		mg/Kg		128	70 - 130	6	35
Toluene	<0.00198	U	0.0994	0.1097		mg/Kg		110	70 - 130	6	35
Ethylbenzene	<0.00198	U	0.0994	0.1087		mg/Kg		109	70 - 130	19	35
m-Xylene & p-Xylene	<0.00396	U	0.199	0.2205		mg/Kg		111	70 - 130	23	35
o-Xylene	<0.00198	U	0.0994	0.1103		mg/Kg		111	70 - 130	24	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-55158/1-A

Matrix: Solid

Analysis Batch: 55236

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55158

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/09/23 14:01	06/12/23 23:24	1

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

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

Lab Sample ID: MB 880-55158/1-A

Matrix: Solid

Analysis Batch: 55236

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55158

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/09/23 14:01	06/12/23 23:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/09/23 14:01	06/12/23 23:24	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			06/09/23 14:01	06/12/23 23:24	1
o-Terphenyl	118		70 - 130			06/09/23 14:01	06/12/23 23:24	1

Lab Sample ID: LCS 880-55158/2-A

Matrix: Solid

Analysis Batch: 55236

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55158

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	905.0		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	982.0		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	24	S1-	70 - 130				
o-Terphenyl	20	S1-	70 - 130				

Lab Sample ID: LCSD 880-55158/3-A

Matrix: Solid

Analysis Batch: 55236

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55158

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	890.2		mg/Kg		89	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	970.1		mg/Kg		97	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	24	S1-	70 - 130						
o-Terphenyl	19	S1-	70 - 130						

Lab Sample ID: 880-29311-A-121-C MS

Matrix: Solid

Analysis Batch: 55236

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 55158

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1017		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1088		mg/Kg		107	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	99		70 - 130						
o-Terphenyl	94		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

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

Lab Sample ID: 880-29311-A-121-D MSD

Matrix: Solid

Analysis Batch: 55236

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 55158

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1035		mg/Kg		100	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1101		mg/Kg		108	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
o-Terphenyl	95		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-55022/1-A

Matrix: Solid

Analysis Batch: 55120

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/09/23 10:37	1

Lab Sample ID: LCS 880-55022/2-A

Matrix: Solid

Analysis Batch: 55120

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.0		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-55022/3-A

Matrix: Solid

Analysis Batch: 55120

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.6		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 890-4784-A-1-C MS

Matrix: Solid

Analysis Batch: 55120

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	254		1250	1506		mg/Kg		100	90 - 110

Lab Sample ID: 890-4784-A-1-D MSD

Matrix: Solid

Analysis Batch: 55120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	254		1250	1511		mg/Kg		100	90 - 110	0	20

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4786-A-2-C MS										Client Sample ID: Matrix Spike			
Matrix: Solid										Prep Type: Soluble			
Analysis Batch: 55120													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	284		249	538.7		mg/Kg		102	90 - 110				

Lab Sample ID: 890-4786-A-2-D MSD										Client Sample ID: Matrix Spike Duplicate			
Matrix: Solid										Prep Type: Soluble			
Analysis Batch: 55120													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	284		249	535.5		mg/Kg		101	90 - 110	1	20		

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

GC VOA

Prep Batch: 54980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54980/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 55034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4787-1	SS01	Total/NA	Solid	5035	
890-4787-2	SS02	Total/NA	Solid	5035	
890-4787-3	SS03	Total/NA	Solid	5035	
MB 880-55034/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-55034/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-55034/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29060-A-8-C MS	Matrix Spike	Total/NA	Solid	5035	
880-29060-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 55086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4787-1	SS01	Total/NA	Solid	8021B	55034
890-4787-2	SS02	Total/NA	Solid	8021B	55034
890-4787-3	SS03	Total/NA	Solid	8021B	55034
MB 880-54980/5-A	Method Blank	Total/NA	Solid	8021B	54980
MB 880-55034/5-A	Method Blank	Total/NA	Solid	8021B	55034
LCS 880-55034/1-A	Lab Control Sample	Total/NA	Solid	8021B	55034
LCSD 880-55034/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	55034
880-29060-A-8-C MS	Matrix Spike	Total/NA	Solid	8021B	55034
880-29060-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	55034

Analysis Batch: 55220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4787-1	SS01	Total/NA	Solid	Total BTEX	
890-4787-2	SS02	Total/NA	Solid	Total BTEX	
890-4787-3	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 55158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4787-1	SS01	Total/NA	Solid	8015NM Prep	
890-4787-2	SS02	Total/NA	Solid	8015NM Prep	
890-4787-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-55158/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-55158/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-55158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29311-A-121-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-29311-A-121-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 55236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4787-1	SS01	Total/NA	Solid	8015B NM	55158
890-4787-2	SS02	Total/NA	Solid	8015B NM	55158
890-4787-3	SS03	Total/NA	Solid	8015B NM	55158
MB 880-55158/1-A	Method Blank	Total/NA	Solid	8015B NM	55158
LCS 880-55158/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	55158

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

GC Semi VOA (Continued)

Analysis Batch: 55236 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-55158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	55158
880-29311-A-121-C MS	Matrix Spike	Total/NA	Solid	8015B NM	55158
880-29311-A-121-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	55158

Analysis Batch: 55418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4787-1	SS01	Total/NA	Solid	8015 NM	
890-4787-2	SS02	Total/NA	Solid	8015 NM	
890-4787-3	SS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 55022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4787-1	SS01	Soluble	Solid	DI Leach	
890-4787-2	SS02	Soluble	Solid	DI Leach	
890-4787-3	SS03	Soluble	Solid	DI Leach	
MB 880-55022/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-55022/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-55022/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4784-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4784-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-4786-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4786-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 55120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4787-1	SS01	Soluble	Solid	300.0	55022
890-4787-2	SS02	Soluble	Solid	300.0	55022
890-4787-3	SS03	Soluble	Solid	300.0	55022
MB 880-55022/1-A	Method Blank	Soluble	Solid	300.0	55022
LCS 880-55022/2-A	Lab Control Sample	Soluble	Solid	300.0	55022
LCSD 880-55022/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	55022
890-4784-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	55022
890-4784-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	55022
890-4786-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	55022
890-4786-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	55022

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

Client Sample ID: SS01

Lab Sample ID: 890-4787-1

Date Collected: 06/06/23 09:50

Matrix: Solid

Date Received: 06/06/23 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	55034	06/08/23 12:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55086	06/10/23 13:25	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55220	06/10/23 18:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55418	06/13/23 12:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	55158	06/09/23 14:01	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	55236	06/13/23 07:19	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	55022	06/08/23 09:45	KS	EET MID
Soluble	Analysis	300.0		5			55120	06/09/23 13:00	CH	EET MID

Client Sample ID: SS02

Lab Sample ID: 890-4787-2

Date Collected: 06/06/23 09:55

Matrix: Solid

Date Received: 06/06/23 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	55034	06/08/23 12:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55086	06/10/23 14:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55220	06/10/23 18:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55418	06/13/23 12:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	55158	06/09/23 14:01	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55236	06/13/23 07:42	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	55022	06/08/23 09:45	KS	EET MID
Soluble	Analysis	300.0		1			55120	06/09/23 13:05	CH	EET MID

Client Sample ID: SS03

Lab Sample ID: 890-4787-3

Date Collected: 06/06/23 10:00

Matrix: Solid

Date Received: 06/06/23 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	55034	06/08/23 12:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55086	06/10/23 14:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55220	06/10/23 18:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55418	06/13/23 12:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	55158	06/09/23 14:01	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55236	06/13/23 08:05	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	55022	06/08/23 09:45	KS	EET MID
Soluble	Analysis	300.0		20			55120	06/09/23 13:11	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4787-1
SDG: 03C1588243

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4787-1	SS01	Solid	06/06/23 09:50	06/06/23 15:42	0.5'
890-4787-2	SS02	Solid	06/06/23 09:55	06/06/23 15:42	0.5'
890-4787-3	SS03	Solid	06/06/23 10:00	06/06/23 15:42	0.5'

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Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garret Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garret.Green@ExxonMobil.com

Program: UST/ST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	Deliverables: EDD ☐ ADAPT ☐ Other: _____

Project Name:	Poker Lake Unit 183Q	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03C1588243	Due Date:	5 days		
Project Location:	32.24083, -103.9191	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Mariha O'Dell				
PO #:					
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No	Parameters		
Samples Received In tact:	☒ Yes ☐ No	Thermometer ID:	11M-207		
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor:	-0.3		
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading:	2.3		
Total Containers:		Corrected Temperature:	2.0		



890-4787 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	ANALYSIS REQUEST	Preservative Codes	Sample Comments
SS01	S	6/6/2023	9:50	0.5'	G	1	X	X	X		None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NASO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	Incident ID: nAPP2315133557 Cost Center: 1137901001
SS02	S	6/6/2023	9:55	0.5'	G	1	X	X	X			
SS03	S	6/6/2023	10:00	0.5'	G	1	X	X	X			

Tacoma Morrissey:
tmorrissey@ensolum.com

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn					
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA		SP		As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U	Hg: 1631 / 245.1 / 7470 / 7471															

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 \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	6/6/23 1542			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4787-1

SDG Number: 03C1588243

Login Number: 4787

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4787-1

SDG Number: 03C1588243

Login Number: 4787

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 06/08/23 10:12 AM

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 <6mm (1/4").	N/A	



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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 6/30/2023 4:33:47 PM

JOB DESCRIPTION

Poker Lake Unit 183Q

SDG NUMBER 03C1588243

JOB NUMBER

890-4858-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
6/30/2023 4:33:47 PM

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

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Laboratory Job ID: 890-4858-1
SDG: 03C1588243

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Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4858-1
SDG: 03C1588243

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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	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
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)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4858-1
SDG: 03C1588243

Job ID: 890-4858-1

Laboratory: Eurofins Carlsbad

Narrative	
Job Narrative 890-4858-1	

Receipt

The samples were received on 6/23/2023 4:35 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 18.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-4858-1) and PH01A (890-4858-2).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-56542/5-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH01 (890-4858-1), PH01A (890-4858-2), (880-30102-A-1-E), (880-30102-A-1-F MS) and (880-30102-A-1-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-56502 and analytical batch 880-56450 was outside the upper control limits.

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

HPLC/IC

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

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4858-1
SDG: 03C1588243

Client Sample ID: PH01

Lab Sample ID: 890-4858-1

Date Collected: 06/23/23 09:30

Matrix: Solid

Date Received: 06/23/23 16:35

Sample Depth: 1

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		06/29/23 08:40	06/29/23 19:46	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/29/23 08:40	06/29/23 19:46	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/29/23 08:40	06/29/23 19:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/29/23 08:40	06/29/23 19:46	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/29/23 08:40	06/29/23 19:46	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/29/23 08:40	06/29/23 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	06/29/23 08:40	06/29/23 19:46	1
1,4-Difluorobenzene (Surr)	84		70 - 130	06/29/23 08:40	06/29/23 19:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/30/23 15:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/29/23 09:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/28/23 13:20	06/29/23 05:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/28/23 13:20	06/29/23 05:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/28/23 13:20	06/29/23 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	182	S1+	70 - 130	06/28/23 13:20	06/29/23 05:25	1
o-Terphenyl	167	S1+	70 - 130	06/28/23 13:20	06/29/23 05:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	529		4.98	mg/Kg			06/27/23 22:51	1

Client Sample ID: PH01A

Lab Sample ID: 890-4858-2

Date Collected: 06/23/23 09:45

Matrix: Solid

Date Received: 06/23/23 16:35

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/29/23 08:40	06/29/23 20:07	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/29/23 08:40	06/29/23 20:07	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/29/23 08:40	06/29/23 20:07	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		06/29/23 08:40	06/29/23 20:07	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/29/23 08:40	06/29/23 20:07	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/29/23 08:40	06/29/23 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	06/29/23 08:40	06/29/23 20:07	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4858-1
SDG: 03C1588243

Client Sample ID: PH01A

Lab Sample ID: 890-4858-2

Date Collected: 06/23/23 09:45

Matrix: Solid

Date Received: 06/23/23 16:35

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	06/29/23 08:40	06/29/23 20:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			06/30/23 15:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/29/23 09:09	1

Method: SW846 8015B NM - Diesel Range Organics (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		06/28/23 13:20	06/29/23 05:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/28/23 13:20	06/29/23 05:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/28/23 13:20	06/29/23 05:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	199	S1+	70 - 130			06/28/23 13:20	06/29/23 05:47	1
o-Terphenyl	185	S1+	70 - 130			06/28/23 13:20	06/29/23 05:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	272		4.95	mg/Kg			06/27/23 22:57	1

Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4858-1
SDG: 03C1588243

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-30147-A-1-C MS	Matrix Spike	103	110
880-30147-A-1-D MSD	Matrix Spike Duplicate	104	115
890-4858-1	PH01	80	84
890-4858-2	PH01A	79	87
LCS 880-56542/1-A	Lab Control Sample	101	108
LCSD 880-56542/2-A	Lab Control Sample Dup	107	113
MB 880-56542/5-A	Method Blank	68 S1-	99
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-30102-A-1-F MS	Matrix Spike	210 S1+	158 S1+
880-30102-A-1-G MSD	Matrix Spike Duplicate	180 S1+	133 S1+
890-4858-1	PH01	182 S1+	167 S1+
890-4858-2	PH01A	199 S1+	185 S1+
LCS 880-56502/2-A	Lab Control Sample	112	100
LCSD 880-56502/3-A	Lab Control Sample Dup	108	96
MB 880-56502/1-A	Method Blank	131 S1+	117
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4858-1
SDG: 03C1588243

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56542/5-A

Matrix: Solid

Analysis Batch: 56541

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56542

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/23 08:40	06/29/23 12:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 08:40	06/29/23 12:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 08:40	06/29/23 12:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/23 08:40	06/29/23 12:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 08:40	06/29/23 12:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/23 08:40	06/29/23 12:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	06/29/23 08:40	06/29/23 12:06	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/29/23 08:40	06/29/23 12:06	1

Lab Sample ID: LCS 880-56542/1-A

Matrix: Solid

Analysis Batch: 56541

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56542

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1215		mg/Kg		121	70 - 130
Toluene	0.100	0.1122		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1133		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2384		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1147		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-56542/2-A

Matrix: Solid

Analysis Batch: 56541

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56542

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1186		mg/Kg		119	70 - 130	2	35
Toluene	0.100	0.1098		mg/Kg		110	70 - 130	2	35
Ethylbenzene	0.100	0.1112		mg/Kg		111	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2328		mg/Kg		116	70 - 130	2	35
o-Xylene	0.100	0.1120		mg/Kg		112	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-30147-A-1-C MS

Matrix: Solid

Analysis Batch: 56541

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56542

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.1116		mg/Kg		112	70 - 130
Toluene	<0.00201	U	0.0996	0.1034		mg/Kg		103	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4858-1
SDG: 03C1588243

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

Lab Sample ID: 880-30147-A-1-C MS

Matrix: Solid

Analysis Batch: 56541

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56542

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0996	0.1007		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2088		mg/Kg		105	70 - 130
o-Xylene	<0.00201	U	0.0996	0.1007		mg/Kg		101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-30147-A-1-D MSD

Matrix: Solid

Analysis Batch: 56541

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 56542

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0994	0.1205		mg/Kg		121	70 - 130	8	35
Toluene	<0.00201	U	0.0994	0.1069		mg/Kg		107	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.0994	0.1038		mg/Kg		104	70 - 130	3	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2146		mg/Kg		108	70 - 130	3	35
o-Xylene	<0.00201	U	0.0994	0.1036		mg/Kg		104	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

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

Lab Sample ID: MB 880-56502/1-A

Matrix: Solid

Analysis Batch: 56450

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56502

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/28/23 13:20	06/28/23 20:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/28/23 13:20	06/28/23 20:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/28/23 13:20	06/28/23 20:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	06/28/23 13:20	06/28/23 20:49	1
o-Terphenyl	117		70 - 130	06/28/23 13:20	06/28/23 20:49	1

Lab Sample ID: LCS 880-56502/2-A

Matrix: Solid

Analysis Batch: 56450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1220		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	1000	907.8		mg/Kg		91	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4858-1
SDG: 03C1588243

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

Lab Sample ID: LCS 880-56502/2-A

Matrix: Solid

Analysis Batch: 56450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56502

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-56502/3-A

Matrix: Solid

Analysis Batch: 56450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56502

			Spike	LCSD	LCSD				%Rec			
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1263		mg/Kg		126	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)			1000	967.6		mg/Kg		97	70 - 130	6	20	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 880-30102-A-1-F MS

Matrix: Solid

Analysis Batch: 56450

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56502

	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1118		mg/Kg		110	70 - 130			
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1112		mg/Kg		110	70 - 130			

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	210	S1+	70 - 130
o-Terphenyl	158	S1+	70 - 130

Lab Sample ID: 880-30102-A-1-G MSD

Matrix: Solid

Analysis Batch: 56450

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 56502

	Sample	Sample	Spike	MSD	MSD				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1023		mg/Kg		101	70 - 130	9	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	998	954.3		mg/Kg		94	70 - 130	15	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	180	S1+	70 - 130
o-Terphenyl	133	S1+	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4858-1
SDG: 03C1588243

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56386/1-A

Matrix: Solid

Analysis Batch: 56440

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/27/23 20:13	1

Lab Sample ID: LCS 880-56386/2-A

Matrix: Solid

Analysis Batch: 56440

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.2		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-56386/3-A

Matrix: Solid

Analysis Batch: 56440

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	244.2		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-4857-A-9-B MS

Matrix: Solid

Analysis Batch: 56440

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	73.7		252	322.6		mg/Kg		99	90 - 110

Lab Sample ID: 890-4857-A-9-C MSD

Matrix: Solid

Analysis Batch: 56440

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	73.7		252	323.1		mg/Kg		99	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4858-1
SDG: 03C1588243

GC VOA

Analysis Batch: 56541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4858-1	PH01	Total/NA	Solid	8021B	56542
890-4858-2	PH01A	Total/NA	Solid	8021B	56542
MB 880-56542/5-A	Method Blank	Total/NA	Solid	8021B	56542
LCS 880-56542/1-A	Lab Control Sample	Total/NA	Solid	8021B	56542
LCSD 880-56542/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56542
880-30147-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	56542
880-30147-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56542

Prep Batch: 56542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4858-1	PH01	Total/NA	Solid	5035	
890-4858-2	PH01A	Total/NA	Solid	5035	
MB 880-56542/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56542/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56542/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30147-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-30147-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 56722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4858-1	PH01	Total/NA	Solid	Total BTEX	
890-4858-2	PH01A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 56450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4858-1	PH01	Total/NA	Solid	8015B NM	56502
890-4858-2	PH01A	Total/NA	Solid	8015B NM	56502
MB 880-56502/1-A	Method Blank	Total/NA	Solid	8015B NM	56502
LCS 880-56502/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56502
LCSD 880-56502/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56502
880-30102-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	56502
880-30102-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56502

Prep Batch: 56502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4858-1	PH01	Total/NA	Solid	8015NM Prep	
890-4858-2	PH01A	Total/NA	Solid	8015NM Prep	
MB 880-56502/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56502/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56502/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30102-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-30102-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4858-1	PH01	Total/NA	Solid	8015 NM	
890-4858-2	PH01A	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4858-1
SDG: 03C1588243

HPLC/IC

Leach Batch: 56386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4858-1	PH01	Soluble	Solid	DI Leach	
890-4858-2	PH01A	Soluble	Solid	DI Leach	
MB 880-56386/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56386/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56386/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4857-A-9-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4857-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 56440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4858-1	PH01	Soluble	Solid	300.0	56386
890-4858-2	PH01A	Soluble	Solid	300.0	56386
MB 880-56386/1-A	Method Blank	Soluble	Solid	300.0	56386
LCS 880-56386/2-A	Lab Control Sample	Soluble	Solid	300.0	56386
LCSD 880-56386/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56386
890-4857-A-9-B MS	Matrix Spike	Soluble	Solid	300.0	56386
890-4857-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	56386

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4858-1
SDG: 03C1588243

Client Sample ID: PH01

Lab Sample ID: 890-4858-1

Date Collected: 06/23/23 09:30

Matrix: Solid

Date Received: 06/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	56542	06/29/23 08:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56541	06/29/23 19:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56722	06/30/23 15:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			56550	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/29/23 05:25	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56386	06/27/23 09:33	CH	EET MID
Soluble	Analysis	300.0		1			56440	06/27/23 22:51	CH	EET MID

Client Sample ID: PH01A

Lab Sample ID: 890-4858-2

Date Collected: 06/23/23 09:45

Matrix: Solid

Date Received: 06/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	56542	06/29/23 08:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56541	06/29/23 20:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56722	06/30/23 15:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			56550	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/29/23 05:47	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	56386	06/27/23 09:33	CH	EET MID
Soluble	Analysis	300.0		1			56440	06/27/23 22:57	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 183Q

Job ID: 890-4858-1
SDG: 03C1588243

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4858-1
SDG: 03C1588243

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4858-1
SDG: 03C1588243

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4858-1	PH01	Solid	06/23/23 09:30	06/23/23 16:35	1
890-4858-2	PH01A	Solid	06/23/23 09:45	06/23/23 16:35	4

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Environment Testing

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

Chain of Custody

Work Order No: _____

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Project Manager:	Ben Bellin	Bill to: (if different)	Garrett Green
Company Name:	Ensolium, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Greene St
City, State ZIP:	Carlsbad, NM 98220	City, State ZIP:	Carlsbad, NM 98220
Phone:	989-854-0852	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments	
Program:	UST/PST ☐ PBP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ Other: _____

Project Name:		Peter Lake Unit 1830		Turn Around	
Project Number:		03615880243		☒ Routine ☐ Rush	
Project Location:		32.24083, -105.01910		Due Date:	
Sampler's Name:		Mariana O'Dell		TAT starts the day received by the lab, if received by 4:30pm	
PO #:				Wet Ice: ☐ Yes ☒ No	
SAMPLE RECEIPT		Temp Blank: ☐ Yes ☒ No		Thermometer ID: 1100003	
Samples Received In tact:		☒ Yes ☐ No		Correction Factor: -0.2	
Cooler Custody Seals:		Yes ☒ No ☐ N/A		Temperature Reading: 18.0	
Sample Custody Seals:		Yes ☐ No ☒ N/A		Corrected Temperature: 18.0	
Total Containers:					
Parameters				Pres. Code	
ANALYSIS REQUEST					
890-4858 Chain of Custody 					
Preservative Codes		None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC			

[illegible]

Total 2007/6010	2008/6020:	
8RCRA 13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Z
TC1P/SP1P 6010 :	8RCRA 5b	As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document, the refund/purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It signifies standard terms and conditions of service. Eurofins Xeno 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 Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$35 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		10/23/23 16:35			

Revised Date: 08/25/2020 Rev. 2002.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4858-1

SDG Number: 03C1588243

Login Number: 4858

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4858-1

SDG Number: 03C1588243

Login Number: 4858

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 06/27/23 10:29 AM

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 <6mm (1/4").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 6/30/2023 4:28:50 PM

JOB DESCRIPTION

Poker Lake Unit 183Q
SDG NUMBER 03C1588243

JOB NUMBER

890-4867-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
6/30/2023 4:28:50 PM

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

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Laboratory Job ID: 890-4867-1
SDG: 03C1588243

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Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery 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.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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	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
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)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Job ID: 890-4867-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-4867-1****Receipt**

The samples were received on 6/26/2023 4:56 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 14.2°C

Receipt Exceptions

The following were received and analyzed from an unpreserved bulk soil jar: PH02 (890-4867-1), FS03 (890-4867-2), SW03 (890-4867-3), FS02 (890-4867-4), SW02 (890-4867-5), FS01 (890-4867-6), SW01 (890-4867-7), FS04 (890-4867-8), FS05 (890-4867-9), SW04 (890-4867-10) and SW05 (890-4867-11).

GC VOA

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-56543 and analytical batch 880-56598 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene and m-Xylene & p-Xylene. Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-56597 and analytical batch 880-56600 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-56597 and analytical batch 880-56600 recovered outside control limits for the following analytes: Benzene and Toluene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-56543/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-56543 and analytical batch 880-56598 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-56560 and analytical batch 880-56535 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-56535 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window; therefore, the data have been reported. The associated sample is impacted: (CCV 880-56535/47).

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Client Sample ID: PH02

Lab Sample ID: 890-4867-1

Date Collected: 06/26/23 09:30

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202	mg/Kg		06/29/23 11:48	06/29/23 17:59	1
Toluene	<0.00202	U ** F1	0.00202	mg/Kg		06/29/23 11:48	06/29/23 17:59	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/29/23 11:48	06/29/23 17:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		06/29/23 11:48	06/29/23 17:59	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/29/23 11:48	06/29/23 17:59	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/29/23 11:48	06/29/23 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	06/29/23 11:48	06/29/23 17:59	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/29/23 11:48	06/29/23 17:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			06/30/23 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/30/23 10:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/29/23 09:50	06/29/23 22:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/29/23 09:50	06/29/23 22:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/29/23 09:50	06/29/23 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	06/29/23 09:50	06/29/23 22:37	1
o-Terphenyl	94		70 - 130	06/29/23 09:50	06/29/23 22:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	138		5.00	mg/Kg			06/28/23 19:08	1

Client Sample ID: FS03

Lab Sample ID: 890-4867-2

Date Collected: 06/26/23 09:35

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202	mg/Kg		06/29/23 11:48	06/29/23 18:19	1
Toluene	<0.00202	U **	0.00202	mg/Kg		06/29/23 11:48	06/29/23 18:19	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/29/23 11:48	06/29/23 18:19	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/29/23 11:48	06/29/23 18:19	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/29/23 11:48	06/29/23 18:19	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/29/23 11:48	06/29/23 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/29/23 11:48	06/29/23 18:19	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Client Sample ID: FS03

Lab Sample ID: 890-4867-2

Date Collected: 06/26/23 09:35

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	06/29/23 11:48	06/29/23 18:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/30/23 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/30/23 10:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/29/23 09:50	06/29/23 23:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/29/23 09:50	06/29/23 23:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/29/23 09:50	06/29/23 23:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			06/29/23 09:50	06/29/23 23:44	1
o-Terphenyl	94		70 - 130			06/29/23 09:50	06/29/23 23:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		5.03	mg/Kg			06/28/23 19:13	1

Client Sample ID: SW03

Lab Sample ID: 890-4867-3

Date Collected: 06/26/23 09:40

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	mg/Kg		06/29/23 11:48	06/29/23 18:40	1
Toluene	<0.00200	U *	0.00200	mg/Kg		06/29/23 11:48	06/29/23 18:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 11:48	06/29/23 18:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/29/23 11:48	06/29/23 18:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 11:48	06/29/23 18:40	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/29/23 11:48	06/29/23 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/29/23 11:48	06/29/23 18:40	1
1,4-Difluorobenzene (Surr)	106		70 - 130	06/29/23 11:48	06/29/23 18:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			06/30/23 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/30/23 10:55	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Client Sample ID: SW03

Lab Sample ID: 890-4867-3

Date Collected: 06/26/23 09:40

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/29/23 09:50	06/30/23 00:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/29/23 09:50	06/30/23 00:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/29/23 09:50	06/30/23 00:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			06/29/23 09:50	06/30/23 00:07	1
o-Terphenyl	103		70 - 130			06/29/23 09:50	06/30/23 00:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		5.01	mg/Kg			06/28/23 19:18	1

Client Sample ID: FS02

Lab Sample ID: 890-4867-4

Date Collected: 06/26/23 09:45

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199	mg/Kg		06/29/23 11:48	06/29/23 19:00	1
Toluene	<0.00199	U **	0.00199	mg/Kg		06/29/23 11:48	06/29/23 19:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/29/23 11:48	06/29/23 19:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/29/23 11:48	06/29/23 19:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/29/23 11:48	06/29/23 19:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/29/23 11:48	06/29/23 19:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			06/29/23 11:48	06/29/23 19:00	1
1,4-Difluorobenzene (Surr)	101		70 - 130			06/29/23 11:48	06/29/23 19:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/30/23 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/30/23 10:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/29/23 09:50	06/30/23 00:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/29/23 09:50	06/30/23 00:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/29/23 09:50	06/30/23 00:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130			06/29/23 09:50	06/30/23 00:29	1
o-Terphenyl	111		70 - 130			06/29/23 09:50	06/30/23 00:29	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Client Sample ID: FS02

Lab Sample ID: 890-4867-4

Date Collected: 06/26/23 09:45

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.0		5.05	mg/Kg			06/28/23 19:33	1

Client Sample ID: SW02

Lab Sample ID: 890-4867-5

Date Collected: 06/26/23 09:50

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199	mg/Kg		06/29/23 11:48	06/29/23 19:21	1
Toluene	<0.00199	U *	0.00199	mg/Kg		06/29/23 11:48	06/29/23 19:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/29/23 11:48	06/29/23 19:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/29/23 11:48	06/29/23 19:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/29/23 11:48	06/29/23 19:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/29/23 11:48	06/29/23 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			06/29/23 11:48	06/29/23 19:21	1
1,4-Difluorobenzene (Surr)	101		70 - 130			06/29/23 11:48	06/29/23 19:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/30/23 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/30/23 10:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		06/29/23 09:50	06/30/23 00:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/29/23 09:50	06/30/23 00:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/29/23 09:50	06/30/23 00:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			06/29/23 09:50	06/30/23 00:51	1
o-Terphenyl	88		70 - 130			06/29/23 09:50	06/30/23 00:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	737		5.00	mg/Kg			06/28/23 19:39	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Client Sample ID: FS01

Lab Sample ID: 890-4867-6

Date Collected: 06/26/23 09:55

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202	mg/Kg		06/29/23 11:48	06/29/23 19:42	1
Toluene	<0.00202	U **	0.00202	mg/Kg		06/29/23 11:48	06/29/23 19:42	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/29/23 11:48	06/29/23 19:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/29/23 11:48	06/29/23 19:42	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/29/23 11:48	06/29/23 19:42	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/29/23 11:48	06/29/23 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/29/23 11:48	06/29/23 19:42	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/29/23 11:48	06/29/23 19:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/30/23 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/30/23 10:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/29/23 09:50	06/30/23 01:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/29/23 09:50	06/30/23 01:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/29/23 09:50	06/30/23 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	06/29/23 09:50	06/30/23 01:14	1
o-Terphenyl	103		70 - 130	06/29/23 09:50	06/30/23 01:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.0		5.02	mg/Kg			06/28/23 19:44	1

Client Sample ID: SW01

Lab Sample ID: 890-4867-7

Date Collected: 06/26/23 10:00

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199	mg/Kg		06/29/23 11:48	06/29/23 20:02	1
Toluene	<0.00199	U **	0.00199	mg/Kg		06/29/23 11:48	06/29/23 20:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/29/23 11:48	06/29/23 20:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/29/23 11:48	06/29/23 20:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/29/23 11:48	06/29/23 20:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/29/23 11:48	06/29/23 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	06/29/23 11:48	06/29/23 20:02	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Client Sample ID: SW01

Lab Sample ID: 890-4867-7

Date Collected: 06/26/23 10:00

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 0 - 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	06/29/23 11:48	06/29/23 20:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/30/23 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/30/23 10:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		06/29/23 09:50	06/30/23 01:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/29/23 09:50	06/30/23 01:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/29/23 09:50	06/30/23 01:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			06/29/23 09:50	06/30/23 01:36	1
o-Terphenyl	106		70 - 130			06/29/23 09:50	06/30/23 01:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		4.95	mg/Kg			06/28/23 19:49	1

Client Sample ID: FS04

Lab Sample ID: 890-4867-8

Date Collected: 06/26/23 14:00

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 2

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		06/29/23 11:48	06/29/23 20:23	1
Toluene	<0.00201	U *	0.00201	mg/Kg		06/29/23 11:48	06/29/23 20:23	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/29/23 11:48	06/29/23 20:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/29/23 11:48	06/29/23 20:23	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/29/23 11:48	06/29/23 20:23	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/29/23 11:48	06/29/23 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	06/29/23 11:48	06/29/23 20:23	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/29/23 11:48	06/29/23 20:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/30/23 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/30/23 10:55	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Client Sample ID: FS04

Lab Sample ID: 890-4867-8

Date Collected: 06/26/23 14:00

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/29/23 09:50	06/30/23 01:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/29/23 09:50	06/30/23 01:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/29/23 09:50	06/30/23 01:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			06/29/23 09:50	06/30/23 01:59	1
o-Terphenyl	103		70 - 130			06/29/23 09:50	06/30/23 01:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.7		4.99	mg/Kg			06/28/23 19:54	1

Client Sample ID: FS05

Lab Sample ID: 890-4867-9

Date Collected: 06/26/23 12:50

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200	mg/Kg		06/29/23 11:48	06/29/23 20:43	1
Toluene	<0.00200	U **	0.00200	mg/Kg		06/29/23 11:48	06/29/23 20:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 11:48	06/29/23 20:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/29/23 11:48	06/29/23 20:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 11:48	06/29/23 20:43	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/29/23 11:48	06/29/23 20:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			06/29/23 11:48	06/29/23 20:43	1
1,4-Difluorobenzene (Surr)	100		70 - 130			06/29/23 11:48	06/29/23 20:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			06/30/23 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/30/23 10:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/29/23 09:50	06/30/23 02:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/29/23 09:50	06/30/23 02:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/29/23 09:50	06/30/23 02:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			06/29/23 09:50	06/30/23 02:21	1
o-Terphenyl	103		70 - 130			06/29/23 09:50	06/30/23 02:21	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Client Sample ID: FS05

Lab Sample ID: 890-4867-9

Date Collected: 06/26/23 12:50

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.3		5.00	mg/Kg			06/28/23 19:59	1

Client Sample ID: SW04

Lab Sample ID: 890-4867-10

Date Collected: 06/26/23 12:55

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 0 - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199	mg/Kg		06/29/23 11:48	06/29/23 21:04	1
Toluene	<0.00199	U *	0.00199	mg/Kg		06/29/23 11:48	06/29/23 21:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/29/23 11:48	06/29/23 21:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/29/23 11:48	06/29/23 21:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/29/23 11:48	06/29/23 21:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/29/23 11:48	06/29/23 21:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			06/29/23 11:48	06/29/23 21:04	1
1,4-Difluorobenzene (Surr)	104		70 - 130			06/29/23 11:48	06/29/23 21:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/30/23 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/30/23 10:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/29/23 09:50	06/30/23 02:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/29/23 09:50	06/30/23 02:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/29/23 09:50	06/30/23 02:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			06/29/23 09:50	06/30/23 02:44	1
o-Terphenyl	106		70 - 130			06/29/23 09:50	06/30/23 02:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.1		4.97	mg/Kg			06/29/23 09:57	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Client Sample ID: SW05

Lab Sample ID: 890-4867-11

Date Collected: 06/26/23 14:30

Matrix: Solid

Date Received: 06/26/23 16:56

Sample Depth: 0 - 2

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		06/29/23 11:48	06/29/23 22:55	1
Toluene	<0.00201	U **	0.00201	mg/Kg		06/29/23 11:48	06/29/23 22:55	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/29/23 11:48	06/29/23 22:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/29/23 11:48	06/29/23 22:55	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/29/23 11:48	06/29/23 22:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/29/23 11:48	06/29/23 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	06/29/23 11:48	06/29/23 22:55	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/29/23 11:48	06/29/23 22:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/30/23 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/30/23 10:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/29/23 09:50	06/30/23 08:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/29/23 09:50	06/30/23 08:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/29/23 09:50	06/30/23 08:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	06/29/23 09:50	06/30/23 08:28	1
o-Terphenyl	96		70 - 130	06/29/23 09:50	06/30/23 08:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.3		5.01	mg/Kg			06/29/23 10:02	1

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Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-30148-A-4-C MS	Matrix Spike	106	84
880-30148-A-4-D MSD	Matrix Spike Duplicate	104	88
890-4867-1	PH02	95	92
890-4867-1 MS	PH02	109	102
890-4867-1 MSD	PH02	107	100
890-4867-2	FS03	100	102
890-4867-3	SW03	102	106
890-4867-4	FS02	104	101
890-4867-5	SW02	112	101
890-4867-6	FS01	104	98
890-4867-7	SW01	107	101
890-4867-8	FS04	116	98
890-4867-9	FS05	112	100
890-4867-10	SW04	103	104
890-4867-11	SW05	95	96
LCS 880-56543/1-A	Lab Control Sample	105	77
LCS 880-56597/1-A	Lab Control Sample	99	95
LCSD 880-56543/2-A	Lab Control Sample Dup	110	99
LCSD 880-56597/2-A	Lab Control Sample Dup	102	99
MB 880-56543/5-A	Method Blank	63 S1-	86
MB 880-56597/5-A	Method Blank	101	111
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4867-1	PH02	108	94
890-4867-1 MS	PH02	121	92
890-4867-1 MSD	PH02	113	84
890-4867-2	FS03	108	94
890-4867-3	SW03	119	103
890-4867-4	FS02	130	111
890-4867-5	SW02	102	88
890-4867-6	FS01	118	103
890-4867-7	SW01	123	106
890-4867-8	FS04	119	103
890-4867-9	FS05	120	103
890-4867-10	SW04	123	106
890-4867-11	SW05	111	96
LCS 880-56560/2-A	Lab Control Sample	118	102
LCSD 880-56560/3-A	Lab Control Sample Dup	114	103
MB 880-56560/1-A	Method Blank	121	107
Surrogate Legend			
1CO = 1-Chlorooctane			

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Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q
OTPH = o-Terphenyl

Job ID: 890-4867-1
SDG: 03C1588243

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56543/5-A

Matrix: Solid

Analysis Batch: 56598

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56543

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/23 08:45	06/29/23 16:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 08:45	06/29/23 16:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 08:45	06/29/23 16:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/23 08:45	06/29/23 16:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 08:45	06/29/23 16:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/23 08:45	06/29/23 16:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130	06/29/23 08:45	06/29/23 16:14	1
1,4-Difluorobenzene (Surr)	86		70 - 130	06/29/23 08:45	06/29/23 16:14	1

Lab Sample ID: LCS 880-56543/1-A

Matrix: Solid

Analysis Batch: 56598

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1295		mg/Kg		130	70 - 130
Toluene	0.100	0.1263		mg/Kg		126	70 - 130
Ethylbenzene	0.100	0.1208		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	0.200	0.2347		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1254		mg/Kg		125	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	77		70 - 130

Lab Sample ID: LCSD 880-56543/2-A

Matrix: Solid

Analysis Batch: 56598

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56543

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1391	*+	mg/Kg		139	70 - 130	7	35
Toluene	0.100	0.1300		mg/Kg		130	70 - 130	3	35
Ethylbenzene	0.100	0.1336	*+	mg/Kg		134	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2618	*+	mg/Kg		131	70 - 130	11	35
o-Xylene	0.100	0.1301		mg/Kg		130	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-30148-A-4-C MS

Matrix: Solid

Analysis Batch: 56598

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U *+	0.0996	0.07271		mg/Kg		73	70 - 130
Toluene	<0.00201	U F1	0.0996	0.06324	F1	mg/Kg		63	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

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

Lab Sample ID: 880-30148-A-4-C MS

Matrix: Solid

Analysis Batch: 56598

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U *+ F1	0.0996	0.05772	F1	mg/Kg		58	70 - 130
m-Xylene & p-Xylene	<0.00402	U *+ F1	0.199	0.1108	F1	mg/Kg		56	70 - 130
o-Xylene	<0.00201	U F1	0.0996	0.05574	F1	mg/Kg		56	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 880-30148-A-4-D MSD

Matrix: Solid

Analysis Batch: 56598

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 56543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U *	0.0994	0.06930		mg/Kg		70	70 - 130	5	35
Toluene	<0.00201	U F1	0.0994	0.05814	F1	mg/Kg		58	70 - 130	8	35
Ethylbenzene	<0.00201	U *+ F1	0.0994	0.04689	F1	mg/Kg		47	70 - 130	21	35
m-Xylene & p-Xylene	<0.00402	U *+ F1	0.199	0.08876	F1	mg/Kg		45	70 - 130	22	35
o-Xylene	<0.00201	U F1	0.0994	0.04332	F1	mg/Kg		44	70 - 130	25	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-56597/5-A

Matrix: Solid

Analysis Batch: 56600

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56597

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/23 11:48	06/29/23 17:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 11:48	06/29/23 17:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 11:48	06/29/23 17:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/23 11:48	06/29/23 17:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 11:48	06/29/23 17:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/23 11:48	06/29/23 17:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/29/23 11:48	06/29/23 17:30	1
1,4-Difluorobenzene (Surr)	111		70 - 130	06/29/23 11:48	06/29/23 17:30	1

Lab Sample ID: LCS 880-56597/1-A

Matrix: Solid

Analysis Batch: 56600

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56597

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1269		mg/Kg		127	70 - 130
Toluene	0.100	0.1298		mg/Kg		130	70 - 130
Ethylbenzene	0.100	0.1051		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2093		mg/Kg		105	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

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

Lab Sample ID: LCS 880-56597/1-A

Matrix: Solid

Analysis Batch: 56600

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56597

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1006		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-56597/2-A

Matrix: Solid

Analysis Batch: 56600

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56597

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1306	*+	mg/Kg		131	70 - 130	3	35
Toluene	0.100	0.1398	*+	mg/Kg		140	70 - 130	7	35
Ethylbenzene	0.100	0.1102		mg/Kg		110	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2161		mg/Kg		108	70 - 130	3	35
o-Xylene	0.100	0.1052		mg/Kg		105	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-4867-1 MS

Matrix: Solid

Analysis Batch: 56600

Client Sample ID: PH02

Prep Type: Total/NA

Prep Batch: 56597

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U *	0.0996	0.1245		mg/Kg		125	70 - 130
Toluene	<0.00202	U *+ F1	0.0996	0.1332	F1	mg/Kg		134	70 - 130
Ethylbenzene	<0.00202	U	0.0996	0.1148		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.199	0.2323		mg/Kg		117	70 - 130
o-Xylene	<0.00202	U	0.0996	0.1127		mg/Kg		113	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-4867-1 MSD

Matrix: Solid

Analysis Batch: 56600

Client Sample ID: PH02

Prep Type: Total/NA

Prep Batch: 56597

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U *	0.0990	0.1261		mg/Kg		127	70 - 130	1	35
Toluene	<0.00202	U *+ F1	0.0990	0.1377	F1	mg/Kg		139	70 - 130	3	35
Ethylbenzene	<0.00202	U	0.0990	0.1105		mg/Kg		112	70 - 130	4	35
m-Xylene & p-Xylene	<0.00403	U	0.198	0.2221		mg/Kg		112	70 - 130	4	35
o-Xylene	<0.00202	U	0.0990	0.1086		mg/Kg		110	70 - 130	4	35

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

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

Lab Sample ID: 890-4867-1 MSD

Matrix: Solid

Analysis Batch: 56600

Client Sample ID: PH02

Prep Type: Total/NA

Prep Batch: 56597

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-56560/1-A

Matrix: Solid

Analysis Batch: 56535

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56560

	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		06/29/23 09:50	06/29/23 21:29	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/29/23 09:50	06/29/23 21:29	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/29/23 09:50	06/29/23 21:29	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
1-Chlorooctane	121		70 - 130			06/29/23 09:50	06/29/23 21:29	1	
o-Terphenyl	107		70 - 130			06/29/23 09:50	06/29/23 21:29	1	

Lab Sample ID: LCS 880-56560/2-A

Matrix: Solid

Analysis Batch: 56535

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56560

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	780.0		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	893.4		mg/Kg		89	70 - 130		
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	118		70 - 130						
o-Terphenyl	102		70 - 130						

Lab Sample ID: LCSD 880-56560/3-A

Matrix: Solid

Analysis Batch: 56535

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56560

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	977.3	*1	mg/Kg		98	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	1000	998.4		mg/Kg		100	70 - 130	11	20
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	114		70 - 130						
o-Terphenyl	103		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

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

Lab Sample ID: 890-4867-1 MS

Matrix: Solid

Analysis Batch: 56535

Client Sample ID: PH02

Prep Type: Total/NA

Prep Batch: 56560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	998	1213		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1109		mg/Kg		109	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	121		70 - 130						
o-Terphenyl	92		70 - 130						

Lab Sample ID: 890-4867-1 MSD

Matrix: Solid

Analysis Batch: 56535

Client Sample ID: PH02

Prep Type: Total/NA

Prep Batch: 56560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	997	1081		mg/Kg		107	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1008		mg/Kg		100	70 - 130	9	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	113		70 - 130								
o-Terphenyl	84		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56483/1-A

Matrix: Solid

Analysis Batch: 56511

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/28/23 18:31	1

Lab Sample ID: LCS 880-56483/2-A

Matrix: Solid

Analysis Batch: 56511

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.6		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-56483/3-A

Matrix: Solid

Analysis Batch: 56511

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.1		mg/Kg		105	90 - 110	2	20

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4867-9 MS

Matrix: Solid

Analysis Batch: 56511

Client Sample ID: FS05

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	84.3		250	339.4		mg/Kg		102	90 - 110		

Lab Sample ID: 890-4867-9 MSD

Matrix: Solid

Analysis Batch: 56511

Client Sample ID: FS05

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	84.3		250	336.3		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

GC VOA

Prep Batch: 56543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56543/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56543/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56543/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30148-A-4-C MS	Matrix Spike	Total/NA	Solid	5035	
880-30148-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 56597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4867-1	PH02	Total/NA	Solid	5035	
890-4867-2	FS03	Total/NA	Solid	5035	
890-4867-3	SW03	Total/NA	Solid	5035	
890-4867-4	FS02	Total/NA	Solid	5035	
890-4867-5	SW02	Total/NA	Solid	5035	
890-4867-6	FS01	Total/NA	Solid	5035	
890-4867-7	SW01	Total/NA	Solid	5035	
890-4867-8	FS04	Total/NA	Solid	5035	
890-4867-9	FS05	Total/NA	Solid	5035	
890-4867-10	SW04	Total/NA	Solid	5035	
890-4867-11	SW05	Total/NA	Solid	5035	
MB 880-56597/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56597/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56597/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4867-1 MS	PH02	Total/NA	Solid	5035	
890-4867-1 MSD	PH02	Total/NA	Solid	5035	

Analysis Batch: 56598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56543/5-A	Method Blank	Total/NA	Solid	8021B	56543
LCS 880-56543/1-A	Lab Control Sample	Total/NA	Solid	8021B	56543
LCSD 880-56543/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56543
880-30148-A-4-C MS	Matrix Spike	Total/NA	Solid	8021B	56543
880-30148-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56543

Analysis Batch: 56600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4867-1	PH02	Total/NA	Solid	8021B	56597
890-4867-2	FS03	Total/NA	Solid	8021B	56597
890-4867-3	SW03	Total/NA	Solid	8021B	56597
890-4867-4	FS02	Total/NA	Solid	8021B	56597
890-4867-5	SW02	Total/NA	Solid	8021B	56597
890-4867-6	FS01	Total/NA	Solid	8021B	56597
890-4867-7	SW01	Total/NA	Solid	8021B	56597
890-4867-8	FS04	Total/NA	Solid	8021B	56597
890-4867-9	FS05	Total/NA	Solid	8021B	56597
890-4867-10	SW04	Total/NA	Solid	8021B	56597
890-4867-11	SW05	Total/NA	Solid	8021B	56597
MB 880-56597/5-A	Method Blank	Total/NA	Solid	8021B	56597
LCS 880-56597/1-A	Lab Control Sample	Total/NA	Solid	8021B	56597
LCSD 880-56597/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56597
890-4867-1 MS	PH02	Total/NA	Solid	8021B	56597
890-4867-1 MSD	PH02	Total/NA	Solid	8021B	56597

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

GC VOA

Analysis Batch: 56718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4867-1	PH02	Total/NA	Solid	Total BTEX	
890-4867-2	FS03	Total/NA	Solid	Total BTEX	
890-4867-3	SW03	Total/NA	Solid	Total BTEX	
890-4867-4	FS02	Total/NA	Solid	Total BTEX	
890-4867-5	SW02	Total/NA	Solid	Total BTEX	
890-4867-6	FS01	Total/NA	Solid	Total BTEX	
890-4867-7	SW01	Total/NA	Solid	Total BTEX	
890-4867-8	FS04	Total/NA	Solid	Total BTEX	
890-4867-9	FS05	Total/NA	Solid	Total BTEX	
890-4867-10	SW04	Total/NA	Solid	Total BTEX	
890-4867-11	SW05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 56535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4867-1	PH02	Total/NA	Solid	8015B NM	56560
890-4867-2	FS03	Total/NA	Solid	8015B NM	56560
890-4867-3	SW03	Total/NA	Solid	8015B NM	56560
890-4867-4	FS02	Total/NA	Solid	8015B NM	56560
890-4867-5	SW02	Total/NA	Solid	8015B NM	56560
890-4867-6	FS01	Total/NA	Solid	8015B NM	56560
890-4867-7	SW01	Total/NA	Solid	8015B NM	56560
890-4867-8	FS04	Total/NA	Solid	8015B NM	56560
890-4867-9	FS05	Total/NA	Solid	8015B NM	56560
890-4867-10	SW04	Total/NA	Solid	8015B NM	56560
890-4867-11	SW05	Total/NA	Solid	8015B NM	56560
MB 880-56560/1-A	Method Blank	Total/NA	Solid	8015B NM	56560
LCS 880-56560/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56560
LCSD 880-56560/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56560
890-4867-1 MS	PH02	Total/NA	Solid	8015B NM	56560
890-4867-1 MSD	PH02	Total/NA	Solid	8015B NM	56560

Prep Batch: 56560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4867-1	PH02	Total/NA	Solid	8015NM Prep	
890-4867-2	FS03	Total/NA	Solid	8015NM Prep	
890-4867-3	SW03	Total/NA	Solid	8015NM Prep	
890-4867-4	FS02	Total/NA	Solid	8015NM Prep	
890-4867-5	SW02	Total/NA	Solid	8015NM Prep	
890-4867-6	FS01	Total/NA	Solid	8015NM Prep	
890-4867-7	SW01	Total/NA	Solid	8015NM Prep	
890-4867-8	FS04	Total/NA	Solid	8015NM Prep	
890-4867-9	FS05	Total/NA	Solid	8015NM Prep	
890-4867-10	SW04	Total/NA	Solid	8015NM Prep	
890-4867-11	SW05	Total/NA	Solid	8015NM Prep	
MB 880-56560/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56560/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56560/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4867-1 MS	PH02	Total/NA	Solid	8015NM Prep	
890-4867-1 MSD	PH02	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

GC Semi VOA

Analysis Batch: 56676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4867-1	PH02	Total/NA	Solid	8015 NM	
890-4867-2	FS03	Total/NA	Solid	8015 NM	
890-4867-3	SW03	Total/NA	Solid	8015 NM	
890-4867-4	FS02	Total/NA	Solid	8015 NM	
890-4867-5	SW02	Total/NA	Solid	8015 NM	
890-4867-6	FS01	Total/NA	Solid	8015 NM	
890-4867-7	SW01	Total/NA	Solid	8015 NM	
890-4867-8	FS04	Total/NA	Solid	8015 NM	
890-4867-9	FS05	Total/NA	Solid	8015 NM	
890-4867-10	SW04	Total/NA	Solid	8015 NM	
890-4867-11	SW05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4867-1	PH02	Soluble	Solid	DI Leach	
890-4867-2	FS03	Soluble	Solid	DI Leach	
890-4867-3	SW03	Soluble	Solid	DI Leach	
890-4867-4	FS02	Soluble	Solid	DI Leach	
890-4867-5	SW02	Soluble	Solid	DI Leach	
890-4867-6	FS01	Soluble	Solid	DI Leach	
890-4867-7	SW01	Soluble	Solid	DI Leach	
890-4867-8	FS04	Soluble	Solid	DI Leach	
890-4867-9	FS05	Soluble	Solid	DI Leach	
890-4867-10	SW04	Soluble	Solid	DI Leach	
890-4867-11	SW05	Soluble	Solid	DI Leach	
MB 880-56483/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56483/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56483/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4867-9 MS	FS05	Soluble	Solid	DI Leach	
890-4867-9 MSD	FS05	Soluble	Solid	DI Leach	

Analysis Batch: 56511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4867-1	PH02	Soluble	Solid	300.0	56483
890-4867-2	FS03	Soluble	Solid	300.0	56483
890-4867-3	SW03	Soluble	Solid	300.0	56483
890-4867-4	FS02	Soluble	Solid	300.0	56483
890-4867-5	SW02	Soluble	Solid	300.0	56483
890-4867-6	FS01	Soluble	Solid	300.0	56483
890-4867-7	SW01	Soluble	Solid	300.0	56483
890-4867-8	FS04	Soluble	Solid	300.0	56483
890-4867-9	FS05	Soluble	Solid	300.0	56483
890-4867-10	SW04	Soluble	Solid	300.0	56483
890-4867-11	SW05	Soluble	Solid	300.0	56483
MB 880-56483/1-A	Method Blank	Soluble	Solid	300.0	56483
LCS 880-56483/2-A	Lab Control Sample	Soluble	Solid	300.0	56483
LCSD 880-56483/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56483
890-4867-9 MS	FS05	Soluble	Solid	300.0	56483
890-4867-9 MSD	FS05	Soluble	Solid	300.0	56483

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Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Client Sample ID: PH02

Lab Sample ID: 890-4867-1

Date Collected: 06/26/23 09:30

Matrix: Solid

Date Received: 06/26/23 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	56597	06/29/23 11:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56600	06/29/23 17:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56718	06/30/23 15:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			56676	06/30/23 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56560	06/29/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56535	06/29/23 22:37	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56483	06/28/23 09:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56511	06/28/23 19:08	CH	EET MID

Client Sample ID: FS03

Lab Sample ID: 890-4867-2

Date Collected: 06/26/23 09:35

Matrix: Solid

Date Received: 06/26/23 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	56597	06/29/23 11:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56600	06/29/23 18:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56718	06/30/23 15:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			56676	06/30/23 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56560	06/29/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56535	06/29/23 23:44	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	56483	06/28/23 09:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56511	06/28/23 19:13	CH	EET MID

Client Sample ID: SW03

Lab Sample ID: 890-4867-3

Date Collected: 06/26/23 09:40

Matrix: Solid

Date Received: 06/26/23 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	56597	06/29/23 11:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56600	06/29/23 18:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56718	06/30/23 15:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			56676	06/30/23 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56560	06/29/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56535	06/30/23 00:07	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	56483	06/28/23 09:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56511	06/28/23 19:18	CH	EET MID

Client Sample ID: FS02

Lab Sample ID: 890-4867-4

Date Collected: 06/26/23 09:45

Matrix: Solid

Date Received: 06/26/23 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	56597	06/29/23 11:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56600	06/29/23 19:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56718	06/30/23 15:34	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Client Sample ID: FS02

Lab Sample ID: 890-4867-4

Date Collected: 06/26/23 09:45

Matrix: Solid

Date Received: 06/26/23 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			56676	06/30/23 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56560	06/29/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56535	06/30/23 00:29	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	56483	06/28/23 09:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56511	06/28/23 19:33	CH	EET MID

Client Sample ID: SW02

Lab Sample ID: 890-4867-5

Date Collected: 06/26/23 09:50

Matrix: Solid

Date Received: 06/26/23 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	56597	06/29/23 11:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56600	06/29/23 19:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56718	06/30/23 15:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			56676	06/30/23 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56560	06/29/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56535	06/30/23 00:51	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56483	06/28/23 09:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56511	06/28/23 19:39	CH	EET MID

Client Sample ID: FS01

Lab Sample ID: 890-4867-6

Date Collected: 06/26/23 09:55

Matrix: Solid

Date Received: 06/26/23 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	56597	06/29/23 11:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56600	06/29/23 19:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56718	06/30/23 15:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			56676	06/30/23 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56560	06/29/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56535	06/30/23 01:14	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56483	06/28/23 09:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56511	06/28/23 19:44	CH	EET MID

Client Sample ID: SW01

Lab Sample ID: 890-4867-7

Date Collected: 06/26/23 10:00

Matrix: Solid

Date Received: 06/26/23 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	56597	06/29/23 11:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56600	06/29/23 20:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56718	06/30/23 15:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			56676	06/30/23 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56560	06/29/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56535	06/30/23 01:36	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Client Sample ID: SW01

Lab Sample ID: 890-4867-7

Date Collected: 06/26/23 10:00

Matrix: Solid

Date Received: 06/26/23 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	56483	06/28/23 09:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56511	06/28/23 19:49	CH	EET MID

Client Sample ID: FS04

Lab Sample ID: 890-4867-8

Date Collected: 06/26/23 14:00

Matrix: Solid

Date Received: 06/26/23 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	56597	06/29/23 11:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56600	06/29/23 20:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56718	06/30/23 15:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			56676	06/30/23 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56560	06/29/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56535	06/30/23 01:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56483	06/28/23 09:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56511	06/28/23 19:54	CH	EET MID

Client Sample ID: FS05

Lab Sample ID: 890-4867-9

Date Collected: 06/26/23 12:50

Matrix: Solid

Date Received: 06/26/23 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	56597	06/29/23 11:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56600	06/29/23 20:43	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56718	06/30/23 15:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			56676	06/30/23 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56560	06/29/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56535	06/30/23 02:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56483	06/28/23 09:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56511	06/28/23 19:59	CH	EET MID

Client Sample ID: SW04

Lab Sample ID: 890-4867-10

Date Collected: 06/26/23 12:55

Matrix: Solid

Date Received: 06/26/23 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	56597	06/29/23 11:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56600	06/29/23 21:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56718	06/30/23 15:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			56676	06/30/23 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56560	06/29/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56535	06/30/23 02:44	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	56483	06/28/23 09:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56511	06/29/23 09:57	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Client Sample ID: SW05
Date Collected: 06/26/23 14:30
Date Received: 06/26/23 16:56

Lab Sample ID: 890-4867-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	56597	06/29/23 11:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56600	06/29/23 22:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56718	06/30/23 15:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			56676	06/30/23 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56560	06/29/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56535	06/30/23 08:28	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	56483	06/28/23 09:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56511	06/29/23 10:02	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 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
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Method Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4867-1
SDG: 03C1588243

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4867-1	PH02	Solid	06/26/23 09:30	06/26/23 16:56	3
890-4867-2	FS03	Solid	06/26/23 09:35	06/26/23 16:56	4
890-4867-3	SW03	Solid	06/26/23 09:40	06/26/23 16:56	0 - 4
890-4867-4	FS02	Solid	06/26/23 09:45	06/26/23 16:56	4
890-4867-5	SW02	Solid	06/26/23 09:50	06/26/23 16:56	0 - 4
890-4867-6	FS01	Solid	06/26/23 09:55	06/26/23 16:56	4
890-4867-7	SW01	Solid	06/26/23 10:00	06/26/23 16:56	0 - 4
890-4867-8	FS04	Solid	06/26/23 14:00	06/26/23 16:56	2
890-4867-9	FS05	Solid	06/26/23 12:50	06/26/23 16:56	2
890-4867-10	SW04	Solid	06/26/23 12:55	06/26/23 16:56	0 - 2
890-4867-11	SW05	Solid	06/26/23 14:30	06/26/23 16:56	0 - 2

Chain of Custody

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

Environment Testing
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Xenco

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Ben Belli	Bill to: (if different)	Garrett Green
Company Name:	Endsum, LLC	Company Name:	XIO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Greer St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	Garrett.Green@ExxonMobil.com

Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

ANALYSIS REQUEST										Preservative Codes	
Project Name:	Project Number:	Project Location:	Sampler's Name:	PO #:	Turn Around	Due Date:	TAT starts the day received by the lab, if received by 4:30pm	Parameters	Pres. Code	None: NO	DI Water: H ₂ O
Power Lake Unit 1030	03C1508243	32 24003-103 01/010	Mariana O'Dell		☒ Routine ☐ Rush	5 days				Cool: Cool	MeOH: Me
SAMPLE RECEIPT					Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒		HCL: HC	HNO ₃ : HN
Samples Received Intact:					Yes ☒ No ☐	Thermometer ID:	TM007			H ₂ SO ₄ : H ₂	NaOH: Na
Cooler Custody Seals:					Yes ☒ No ☐	Correction Factor:	0.8			H ₃ PO ₄ : HP	
Sample Custody Seals:					Yes ☒ No ☐	Temperature Reading:	14.4			NaHSO ₄ : NABIS	
Total Containers:						Corrected Temperature:	14.2			Na ₂ S ₂ O ₃ : NaSO ₃	
890-4867 Chain of Custody											
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments				
PH02	S	6/12/2023	9:30	3'	G	1	Incident #:				
FS03	S		9:35	4'	C	1	NAPP 2315 233557				
SW03	S		9:40	0-4'	C	1	Cost center:				
FS02	S		9:45	4'	C	1	1137901001				
SW02	S		9:50	0-4'	C	1	API: 30-015-33224				
FS01	S		9:55	4'	C	1	Ben Belli				
SW01	S		10:00	0-4'	C	1	bbelli@xensum.com				
FS04	S		14:00	2'	C	1					
FS05	S		12:50	2'	C	1					
SW04	S		12:55	0-2'	C	1					

Total	200.7/6010	200.8/6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631/245.1/7470 /7471		

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 \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Que	6/26/23 10:51			

Revised Date: 08/25/2020 Rev. 2020.1

Chain of Custody

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

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

www.xenco.com Page 2 of 2

Page 2 of 2

Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolium, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Greene St
City/State ZIP:	Carlsbad, NM 88220	City/State ZIP:	Carlsbad, NM 88220
Phone:	989-954 0857	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments											
Program:		UST/PST	☐	PRP	☐	Brownfields	☐	RRC	☐	Superfund	☐
State of Project:											
Reporting:		Level II	☐	Level III	☐	PST/UST	☐	TRRP	☐	Level IV	☐
Deliverables:		EDD	☐	ADAPT	☐	Other:					

[illegible]

T	Preservative Codes
	None: NO DI Water: H ₂ O
	Cool: Cool MeOH: Me
	HCL: HC HNO ₃ : HN
	H ₂ SO ₄ : H ₂ NaOH: Na
	H ₃ PO ₄ : HP
	NaHSO ₄ : NABIS
	Na ₂ S ₂ O ₃ : NaSO ₃
	Zn Acetate+NaOH: Zn
	NaOH+Ascorbic Acid: SAPC
	Sample Codes
	Incident #:
	NAPP2315133557
	Cost Center:
	1137901001
	API: 30-015-3322
	MD
	Ben Beill:
	bbeill@engslum.c

Total	200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Tl	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed																															
TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245 1 / 7470 / 7471																															

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 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 \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
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Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 86220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler		Lab PM		Carrier Tracking No(s)		COCC No:															
Client Contact:		Phone:		Kramer Jessica		State of Origin		890-1346 1															
Shipping/Receiving		E-Mail		Jessica Kramer@et.eurofins.com		New Mexico		Page 1 of 2															
Company		Eurofins Environment Testing South Cent		Accreditations Required (See note):		NELAP - Texas		Job #:															
Address		1211 W Florida Ave		Due Date Requested		6/30/2023		890-4867-1															
City		Midland		TAT Requested (days)		7																	
State Zip:		TX, 79701																					
Phone:		432-704-5440(Tel)		PO #:																			
Email				WO #:																			
Project Name:		Poker Lake Unit 183Q		Project #:		89000093																	
Site		SSCOW#																					
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=Water, S=solid, O=wasteoil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Analysis Requested		Total Number of containers		Special Instructions/Note:			
PH02 (890-4867-1)				6/26/23		09 30		Mountain		Solid		X		X		X		X		1			
FS03 (890-4867-2)				6/26/23		09 35		Mountain		Solid		X		X		X		X		1			
SWM03 (890-4867-3)				6/26/23		09 40		Mountain		Solid		X		X		X		X		1			
FS02 (890-4867-4)				6/26/23		09 45		Mountain		Solid		X		X		X		X		1			
SWM02 (890-4867-5)				6/26/23		09 50		Mountain		Solid		X		X		X		X		1			
FS01 (890-4867-6)				6/26/23		09 55		Mountain		Solid		X		X		X		X		1			
SWM01 (890-4867-7)				6/26/23		10 00		Mountain		Solid		X		X		X		X		1			
FS04 (890-4867-8)				6/26/23		14 00		Mountain		Solid		X		X		X		X		1			
FS05 (890-4867-9)				6/26/23		12 50		Mountain		Solid		X		X		X		X		1			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																							
Possible Hazard Identification																							
Unconfirmed																							
Deliverable Requested I II III IV Other (specify)		Primary Deliverable Rank 2		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		☐ Return To Client		☐ Disposal By Lab		☐ Archive For		Months											
Empty Kit Relinquished by:		Date/Time		Date		Time		Method of Shipment:															
Relinquished by:		Date/Time		Company		Received by:		Date/Time															
Relinquished by:		Date/Time		Company		Received by:		Date/Time															
Relinquished by:		Date/Time		Company		Received by:		Date/Time															
Custody Seals Intact:		Custody Seal No		Cooler Temperature(s) °C and Other Remarks																			
A Yes A No																							

Eurofins Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record



Environment Testing

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4867-1

SDG Number: 03C1588243

Login Number: 4867

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4867-1

SDG Number: 03C1588243

Login Number: 4867

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 06/28/23 10:43 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 7/3/2023 2:18:17 PM

JOB DESCRIPTION

Poker Lake Unit 183Q
SDG NUMBER 03C1588243

JOB NUMBER

890-4874-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
7/3/2023 2:18:17 PM

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

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Laboratory Job ID: 890-4874-1
SDG: 03C1588243

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Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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.
α	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
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)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

Job ID: 890-4874-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4874-1

Receipt

The samples were received on 6/28/2023 9:39 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 0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH03 (890-4874-1), FS06 (890-4874-2) and FS07 (890-4874-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4857-A-6-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-56630 and analytical batch 880-56626 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-56630 and analytical batch 880-56626 recovered outside control limits for the following analytes: Benzene. Since only an acceptable LCS or LCSD is required per the method, the LCSD shows recovery for the batch; therefore, the data have been reported.

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

Client Sample ID: PH03

Lab Sample ID: 890-4874-1

Date Collected: 06/27/23 09:10

Matrix: Solid

Date Received: 06/28/23 09:39

Sample Depth: 6

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		06/29/23 14:56	06/30/23 10:21	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 10:21	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 10:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/29/23 14:56	06/30/23 10:21	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 10:21	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/29/23 14:56	06/30/23 10:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/29/23 14:56	06/30/23 10:21	1
1,4-Difluorobenzene (Surr)	112		70 - 130	06/29/23 14:56	06/30/23 10:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			06/30/23 15:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/03/23 15:06	1

Method: SW846 8015B NM - Diesel Range Organics (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		07/02/23 11:21	07/03/23 01:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/02/23 11:21	07/03/23 01:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/02/23 11:21	07/03/23 01:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	07/02/23 11:21	07/03/23 01:17	1
o-Terphenyl	80		70 - 130	07/02/23 11:21	07/03/23 01:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14800		99.8	mg/Kg			06/30/23 16:26	20

Client Sample ID: FS06

Lab Sample ID: 890-4874-2

Date Collected: 06/27/23 10:40

Matrix: Solid

Date Received: 06/28/23 09:39

Sample Depth: 6

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		06/29/23 14:56	06/30/23 10:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/29/23 14:56	06/30/23 10:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/29/23 14:56	06/30/23 10:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/29/23 14:56	06/30/23 10:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/29/23 14:56	06/30/23 10:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/29/23 14:56	06/30/23 10:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	06/29/23 14:56	06/30/23 10:42	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

Client Sample ID: FS06

Lab Sample ID: 890-4874-2

Date Collected: 06/27/23 10:40

Matrix: Solid

Date Received: 06/28/23 09:39

Sample Depth: 6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	110		70 - 130	06/29/23 14:56	06/30/23 10:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/30/23 15:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/03/23 15:06	1

Method: SW846 8015B NM - Diesel Range Organics (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		07/02/23 11:21	07/03/23 01:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/02/23 11:21	07/03/23 01:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/02/23 11:21	07/03/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			07/02/23 11:21	07/03/23 01:37	1
o-Terphenyl	77		70 - 130			07/02/23 11:21	07/03/23 01:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10600		99.8	mg/Kg			06/30/23 16:42	20

Client Sample ID: FS07

Lab Sample ID: 890-4874-3

Date Collected: 06/27/23 15:15

Matrix: Solid

Date Received: 06/28/23 09:39

Sample Depth: 6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *	0.00202	mg/Kg		06/29/23 14:56	06/30/23 11:03	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/29/23 14:56	06/30/23 11:03	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/29/23 14:56	06/30/23 11:03	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		06/29/23 14:56	06/30/23 11:03	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/29/23 14:56	06/30/23 11:03	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/29/23 14:56	06/30/23 11:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/29/23 14:56	06/30/23 11:03	1
1,4-Difluorobenzene (Surr)	112		70 - 130	06/29/23 14:56	06/30/23 11:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			06/30/23 15:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/03/23 15:06	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

Client Sample ID: FS07

Lab Sample ID: 890-4874-3

Date Collected: 06/27/23 15:15

Matrix: Solid

Date Received: 06/28/23 09:39

Sample Depth: 6

Method: SW846 8015B NM - Diesel Range Organics (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		07/02/23 11:21	07/03/23 01:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/02/23 11:21	07/03/23 01:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/02/23 11:21	07/03/23 01:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			07/02/23 11:21	07/03/23 01:58	1
o-Terphenyl	77		70 - 130			07/02/23 11:21	07/03/23 01:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15500		100	mg/Kg			06/30/23 16:47	20

Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4857-A-6-C MS	Matrix Spike	104	101
890-4857-A-6-D MSD	Matrix Spike Duplicate	142 S1+	98
890-4874-1	PH03	100	112
890-4874-2	FS06	97	110
890-4874-3	FS07	100	112
LCS 880-56630/1-A	Lab Control Sample	102	101
LCSD 880-56630/2-A	Lab Control Sample Dup	107	93
MB 880-56572/5-A	Method Blank	97	88
MB 880-56630/5-A	Method Blank	99	85
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4874-1	PH03	81	80
890-4874-2	FS06	78	77
890-4874-3	FS07	78	77
890-4876-A-2-E MS	Matrix Spike	88	77
890-4876-A-2-F MSD	Matrix Spike Duplicate	90	78
LCS 880-56778/2-A	Lab Control Sample	108	108
LCSD 880-56778/3-A	Lab Control Sample Dup	99	95
MB 880-56778/1-A	Method Blank	90	90
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56572/5-A

Matrix: Solid

Analysis Batch: 56626

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56572

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/23 10:49	06/29/23 16:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	06/29/23 10:49	06/29/23 16:56	1
1,4-Difluorobenzene (Surr)	88		70 - 130	06/29/23 10:49	06/29/23 16:56	1

Lab Sample ID: MB 880-56630/5-A

Matrix: Solid

Analysis Batch: 56626

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56630

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 03:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 03:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 03:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/23 14:56	06/30/23 03:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 03:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/23 14:56	06/30/23 03:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/29/23 14:56	06/30/23 03:44	1
1,4-Difluorobenzene (Surr)	85		70 - 130	06/29/23 14:56	06/30/23 03:44	1

Lab Sample ID: LCS 880-56630/1-A

Matrix: Solid

Analysis Batch: 56626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1315	*+	mg/Kg		131	70 - 130
Toluene	0.100	0.1282		mg/Kg		128	70 - 130
Ethylbenzene	0.100	0.1065		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2196		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1065		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-56630/2-A

Matrix: Solid

Analysis Batch: 56626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56630

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1000		mg/Kg		100	70 - 130	27	35

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

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

Lab Sample ID: LCSD 880-56630/2-A

Matrix: Solid

Analysis Batch: 56626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56630

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1123		mg/Kg		112	70 - 130	13	35
Ethylbenzene	0.100	0.09949		mg/Kg		99	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2142		mg/Kg		107	70 - 130	2	35
o-Xylene	0.100	0.1034		mg/Kg		103	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-4857-A-6-C MS

Matrix: Solid

Analysis Batch: 56626

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56630

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U *	0.0996	0.1157		mg/Kg		116	70 - 130
Toluene	<0.00202	U	0.0996	0.1146		mg/Kg		115	70 - 130
Ethylbenzene	<0.00202	U	0.0996	0.09322		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00404	U F1	0.199	0.1900		mg/Kg		95	70 - 130
o-Xylene	<0.00202	U	0.0996	0.09099		mg/Kg		91	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-4857-A-6-D MSD

Matrix: Solid

Analysis Batch: 56626

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 56630

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U *	0.0994	0.1009		mg/Kg		101	70 - 130	14	35
Toluene	<0.00202	U	0.0994	0.1192		mg/Kg		120	70 - 130	4	35
Ethylbenzene	<0.00202	U	0.0994	0.1170		mg/Kg		118	70 - 130	23	35
m-Xylene & p-Xylene	<0.00404	U F1	0.199	0.2606	F1	mg/Kg		131	70 - 130	31	35
o-Xylene	<0.00202	U	0.0994	0.1265		mg/Kg		127	70 - 130	33	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-56778/1-A

Matrix: Solid

Analysis Batch: 56775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56778

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/02/23 11:21	07/02/23 22:31	1

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

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

Lab Sample ID: MB 880-56778/1-A

Matrix: Solid

Analysis Batch: 56775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56778

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/02/23 11:21	07/02/23 22:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/02/23 11:21	07/02/23 22:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			07/02/23 11:21	07/02/23 22:31	1
o-Terphenyl	90		70 - 130			07/02/23 11:21	07/02/23 22:31	1

Lab Sample ID: LCS 880-56778/2-A

Matrix: Solid

Analysis Batch: 56775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56778

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	956.4		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1053		mg/Kg		105	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	108		70 - 130				
o-Terphenyl	108		70 - 130				

Lab Sample ID: LCSD 880-56778/3-A

Matrix: Solid

Analysis Batch: 56775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56778

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	907.5		mg/Kg		91	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1012		mg/Kg		101	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	99		70 - 130						
o-Terphenyl	95		70 - 130						

Lab Sample ID: 890-4876-A-2-E MS

Matrix: Solid

Analysis Batch: 56775

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56778

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	941.9		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	884.1		mg/Kg		86	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	88		70 - 130						
o-Terphenyl	77		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

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

Lab Sample ID: 890-4876-A-2-F MSD

Matrix: Solid

Analysis Batch: 56775

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 56778

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	955.5		mg/Kg		94	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	901.8		mg/Kg		88	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	90		70 - 130								
o-Terphenyl	78		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56551/1-A

Matrix: Solid

Analysis Batch: 56693

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/30/23 14:37	1

Lab Sample ID: LCS 880-56551/2-A

Matrix: Solid

Analysis Batch: 56693

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.5		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-56551/3-A

Matrix: Solid

Analysis Batch: 56693

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.4		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-4873-A-11-B MS

Matrix: Solid

Analysis Batch: 56693

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2060		1260	3345		mg/Kg		102	90 - 110

Lab Sample ID: 890-4873-A-11-C MSD

Matrix: Solid

Analysis Batch: 56693

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2060		1260	3347		mg/Kg		102	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

GC VOA

Prep Batch: 56572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56572/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 56626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4874-1	PH03	Total/NA	Solid	8021B	56630
890-4874-2	FS06	Total/NA	Solid	8021B	56630
890-4874-3	FS07	Total/NA	Solid	8021B	56630
MB 880-56572/5-A	Method Blank	Total/NA	Solid	8021B	56572
MB 880-56630/5-A	Method Blank	Total/NA	Solid	8021B	56630
LCS 880-56630/1-A	Lab Control Sample	Total/NA	Solid	8021B	56630
LCSD 880-56630/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56630
890-4857-A-6-C MS	Matrix Spike	Total/NA	Solid	8021B	56630
890-4857-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56630

Prep Batch: 56630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4874-1	PH03	Total/NA	Solid	5035	
890-4874-2	FS06	Total/NA	Solid	5035	
890-4874-3	FS07	Total/NA	Solid	5035	
MB 880-56630/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56630/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56630/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4857-A-6-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4857-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 56717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4874-1	PH03	Total/NA	Solid	Total BTEX	
890-4874-2	FS06	Total/NA	Solid	Total BTEX	
890-4874-3	FS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 56775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4874-1	PH03	Total/NA	Solid	8015B NM	56778
890-4874-2	FS06	Total/NA	Solid	8015B NM	56778
890-4874-3	FS07	Total/NA	Solid	8015B NM	56778
MB 880-56778/1-A	Method Blank	Total/NA	Solid	8015B NM	56778
LCS 880-56778/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56778
LCSD 880-56778/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56778
890-4876-A-2-E MS	Matrix Spike	Total/NA	Solid	8015B NM	56778
890-4876-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56778

Prep Batch: 56778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4874-1	PH03	Total/NA	Solid	8015NM Prep	
890-4874-2	FS06	Total/NA	Solid	8015NM Prep	
890-4874-3	FS07	Total/NA	Solid	8015NM Prep	
MB 880-56778/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56778/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

GC Semi VOA (Continued)

Prep Batch: 56778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-56778/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4876-A-2-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4876-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4874-1	PH03	Total/NA	Solid	8015 NM	
890-4874-2	FS06	Total/NA	Solid	8015 NM	
890-4874-3	FS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4874-1	PH03	Soluble	Solid	DI Leach	
890-4874-2	FS06	Soluble	Solid	DI Leach	
890-4874-3	FS07	Soluble	Solid	DI Leach	
MB 880-56551/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56551/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56551/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4873-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4873-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 56693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4874-1	PH03	Soluble	Solid	300.0	56551
890-4874-2	FS06	Soluble	Solid	300.0	56551
890-4874-3	FS07	Soluble	Solid	300.0	56551
MB 880-56551/1-A	Method Blank	Soluble	Solid	300.0	56551
LCS 880-56551/2-A	Lab Control Sample	Soluble	Solid	300.0	56551
LCSD 880-56551/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56551
890-4873-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	56551
890-4873-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	56551

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

Client Sample ID: PH03

Lab Sample ID: 890-4874-1

Date Collected: 06/27/23 09:10

Matrix: Solid

Date Received: 06/28/23 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 10:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56717	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56919	07/03/23 15:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56778	07/02/23 11:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56775	07/03/23 01:17	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		20			56693	06/30/23 16:26	CH	EET MID

Client Sample ID: FS06

Lab Sample ID: 890-4874-2

Date Collected: 06/27/23 10:40

Matrix: Solid

Date Received: 06/28/23 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 10:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56717	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56919	07/03/23 15:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56778	07/02/23 11:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56775	07/03/23 01:37	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		20			56693	06/30/23 16:42	CH	EET MID

Client Sample ID: FS07

Lab Sample ID: 890-4874-3

Date Collected: 06/27/23 15:15

Matrix: Solid

Date Received: 06/28/23 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 11:03	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56717	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56919	07/03/23 15:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56778	07/02/23 11:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56775	07/03/23 01:58	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		20			56693	06/30/23 16:47	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4874-1
SDG: 03C1588243

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4874-1	PH03	Solid	06/27/23 09:10	06/28/23 09:39	6
890-4874-2	FS06	Solid	06/27/23 10:40	06/28/23 09:39	6
890-4874-3	FS07	Solid	06/27/23 15:15	06/28/23 09:39	6

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Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

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Project Manager:	Ben Belli	Bill to: (if different)	Garrett Green
Company Name:	ENSOLUM, LLC	Company Name:	XTO Energy
Address:	3122 National Parkway	Address:	3104 E. Greene St
City, State Zip:	Carlsbad, NM 88220	City, State Zip:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	Garrett.Green@XxonMobil.com

Program:	UST/PST	PRP	Brownfields	RRC	Superfund
State of Project:					
Reporting:	Level II	Level III	PST/UST	TRRP	Level IV
Deliverables:	EDD	Adapt			Other:

Project Name:	POKER LAKE UNIT 1838	Turn Around	Pre: Code	ANALYSIS REQUEST	Preservative Codes
Project Number:	03C1588243	☒ Routine ☐ Rush			None: NO DI Water: H ₂ O
Project Location:	32.24083, -103.91910	Due Date:	5 day		Cool: Cool MeOH: Me
Sampler's Name:	Marianna O'Dell	TAT starts the day received by the lab, if received by 4:30pm			HCL: HC HNO ₃ : HN
PO #:					H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☐ No			H ₂ PO ₄ : HP
Samples Received Intact:	☒ Yes ☐ No	Thermometer I.D.: PM003			NaHSO ₄ : NABIS
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor: -0.2			Na ₂ S ₂ O ₃ : NASO ₃
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading: 1.9			Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature: 0.8			NaOH+Ascorbic Acid: SAPC



890-4874 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Sample Comments
PH03	S	10/27/23	9:10	6'	G	1	Chlorides	Incident #:
ES06	S		10:40	6'	C	1	TPH	NAPP 2315133557
ES07	S		15:15	6'	C	1	BTEX	East center:
								1137401001
								API: 30-015-33224
								Ben Belli:
								bbelli@ensolum.com

Total 200.7 6010 2008.1 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4874-1

SDG Number: 03C1588243

Login Number: 4874

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4874-1

SDG Number: 03C1588243

Login Number: 4874

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 06/29/23 10:42 AM

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 <6mm (1/4").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

POKER LAKE UNIT 183 Q
SDG NUMBER 03C1588243

JOB NUMBER

890-4886-1

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



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7/6/2023 1:48:57 PM

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

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Laboratory Job ID: 890-4886-1
SDG: 03C1588243

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Definitions/Glossary

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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
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)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Job ID: 890-4886-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-4886-1**

Receipt

The samples were received on 6/30/2023 11:00 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 3.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW06 (890-4886-1), FS08 (890-4886-2), SW07 (890-4886-3), FS09 (890-4886-4), SW08 (890-4886-5), FS10 (890-4886-6) and SW09 (890-4886-7).

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-56855 and analytical batch 880-56822 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-56907 and analytical batch 880-56814 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS08 (890-4886-2), SW07 (890-4886-3), FS09 (890-4886-4), SW08 (890-4886-5) and FS10 (890-4886-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-56907 and analytical batch 880-56814 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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 880-56898 and analytical batch 880-57017 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Client Sample ID: SW06

Lab Sample ID: 890-4886-1

Date Collected: 06/29/23 10:55

Matrix: Solid

Date Received: 06/30/23 11:00

Sample Depth: 0 - 6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/03/23 10:03	07/03/23 14:42	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		07/03/23 10:03	07/03/23 14:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/03/23 10:03	07/03/23 14:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/03/23 10:03	07/03/23 14:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/03/23 10:03	07/03/23 14:42	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/03/23 10:03	07/03/23 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	07/03/23 10:03	07/03/23 14:42	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/03/23 10:03	07/03/23 14:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/05/23 12:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/05/23 11:42	1

Method: SW846 8015B NM - Diesel Range Organics (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		07/03/23 12:50	07/04/23 10:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/03/23 12:50	07/04/23 10:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/03/23 12:50	07/04/23 10:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	07/03/23 12:50	07/04/23 10:59	1
o-Terphenyl	94		70 - 130	07/03/23 12:50	07/04/23 10:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	149		5.04	mg/Kg			07/06/23 08:45	1

Client Sample ID: FS08

Lab Sample ID: 890-4886-2

Date Collected: 06/29/23 14:20

Matrix: Solid

Date Received: 06/30/23 11:00

Sample Depth: 6

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		07/03/23 10:03	07/03/23 15:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/03/23 10:03	07/03/23 15:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/03/23 10:03	07/03/23 15:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/03/23 10:03	07/03/23 15:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/03/23 10:03	07/03/23 15:02	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/03/23 10:03	07/03/23 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	07/03/23 10:03	07/03/23 15:02	1

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Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Client Sample ID: FS08

Lab Sample ID: 890-4886-2

Date Collected: 06/29/23 14:20

Matrix: Solid

Date Received: 06/30/23 11:00

Sample Depth: 6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	07/03/23 10:03	07/03/23 15:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/05/23 12:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/05/23 11:42	1

Method: SW846 8015B NM - Diesel Range Organics (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		07/03/23 12:50	07/04/23 11:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/03/23 12:50	07/04/23 11:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/03/23 12:50	07/04/23 11:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130			07/03/23 12:50	07/04/23 11:21	1
o-Terphenyl	115		70 - 130			07/03/23 12:50	07/04/23 11:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8540		50.4	mg/Kg			07/06/23 08:51	10

Client Sample ID: SW07

Lab Sample ID: 890-4886-3

Date Collected: 06/29/23 13:20

Matrix: Solid

Date Received: 06/30/23 11:00

Sample Depth: 0 - 6

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		07/03/23 10:03	07/03/23 15:23	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/03/23 10:03	07/03/23 15:23	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/03/23 10:03	07/03/23 15:23	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/03/23 10:03	07/03/23 15:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/03/23 10:03	07/03/23 15:23	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/03/23 10:03	07/03/23 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/03/23 10:03	07/03/23 15:23	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/03/23 10:03	07/03/23 15:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			07/05/23 12:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			07/05/23 11:42	1

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Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Client Sample ID: SW07

Lab Sample ID: 890-4886-3

Date Collected: 06/29/23 13:20

Matrix: Solid

Date Received: 06/30/23 11:00

Sample Depth: 0 - 6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/03/23 12:50	07/04/23 11:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/03/23 12:50	07/04/23 11:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/03/23 12:50	07/04/23 11:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			07/03/23 12:50	07/04/23 11:42	1
o-Terphenyl	112		70 - 130			07/03/23 12:50	07/04/23 11:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	477	F1	4.99	mg/Kg			07/06/23 08:57	1

Client Sample ID: FS09

Lab Sample ID: 890-4886-4

Date Collected: 06/29/23 15:30

Matrix: Solid

Date Received: 06/30/23 11:00

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/03/23 10:03	07/03/23 15:43	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/03/23 10:03	07/03/23 15:43	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/03/23 10:03	07/03/23 15:43	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/03/23 10:03	07/03/23 15:43	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/03/23 10:03	07/03/23 15:43	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/03/23 10:03	07/03/23 15:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			07/03/23 10:03	07/03/23 15:43	1
1,4-Difluorobenzene (Surr)	99		70 - 130			07/03/23 10:03	07/03/23 15:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/05/23 12:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			07/05/23 11:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/03/23 12:50	07/05/23 06:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/03/23 12:50	07/05/23 06:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/03/23 12:50	07/05/23 06:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130			07/03/23 12:50	07/05/23 06:59	1
o-Terphenyl	68	S1-	70 - 130			07/03/23 12:50	07/05/23 06:59	1

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Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Client Sample ID: FS09

Lab Sample ID: 890-4886-4

Date Collected: 06/29/23 15:30

Matrix: Solid

Date Received: 06/30/23 11:00

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.4		5.04	mg/Kg			07/06/23 09:14	1

Client Sample ID: SW08

Lab Sample ID: 890-4886-5

Date Collected: 06/29/23 14:25

Matrix: Solid

Date Received: 06/30/23 11:00

Sample Depth: 0 - 6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/03/23 10:03	07/03/23 16:04	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/03/23 10:03	07/03/23 16:04	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/03/23 10:03	07/03/23 16:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/03/23 10:03	07/03/23 16:04	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/03/23 10:03	07/03/23 16:04	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/03/23 10:03	07/03/23 16:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			07/03/23 10:03	07/03/23 16:04	1
1,4-Difluorobenzene (Surr)	97		70 - 130			07/03/23 10:03	07/03/23 16:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			07/05/23 12:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/05/23 11:42	1

Method: SW846 8015B NM - Diesel Range Organics (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		07/03/23 12:50	07/05/23 07:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/03/23 12:50	07/05/23 07:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/03/23 12:50	07/05/23 07:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130			07/03/23 12:50	07/05/23 07:23	1
o-Terphenyl	117		70 - 130			07/03/23 12:50	07/05/23 07:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.3		5.05	mg/Kg			07/06/23 09:20	1

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Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Client Sample ID: FS10

Lab Sample ID: 890-4886-6

Date Collected: 06/29/23 15:40

Matrix: Solid

Date Received: 06/30/23 11:00

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/03/23 10:03	07/03/23 16:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/03/23 10:03	07/03/23 16:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/03/23 10:03	07/03/23 16:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/03/23 10:03	07/03/23 16:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/03/23 10:03	07/03/23 16:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/03/23 10:03	07/03/23 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	07/03/23 10:03	07/03/23 16:25	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/03/23 10:03	07/03/23 16:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/05/23 12:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/05/23 11:42	1

Method: SW846 8015B NM - Diesel Range Organics (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		07/03/23 12:50	07/05/23 07:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/03/23 12:50	07/05/23 07:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/03/23 12:50	07/05/23 07:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	07/03/23 12:50	07/05/23 07:54	1
o-Terphenyl	123		70 - 130	07/03/23 12:50	07/05/23 07:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.2		4.98	mg/Kg			07/06/23 09:38	1

Client Sample ID: SW09

Lab Sample ID: 890-4886-7

Date Collected: 06/29/23 15:35

Matrix: Solid

Date Received: 06/30/23 11:00

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/03/23 10:03	07/03/23 16:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/03/23 10:03	07/03/23 16:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/03/23 10:03	07/03/23 16:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/03/23 10:03	07/03/23 16:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/03/23 10:03	07/03/23 16:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/03/23 10:03	07/03/23 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	07/03/23 10:03	07/03/23 16:46	1

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Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Client Sample ID: SW09

Lab Sample ID: 890-4886-7

Date Collected: 06/29/23 15:35

Matrix: Solid

Date Received: 06/30/23 11:00

Sample Depth: 0 - 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	07/03/23 10:03	07/03/23 16:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/05/23 12:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			07/05/23 11:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/03/23 12:50	07/05/23 08:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/03/23 12:50	07/05/23 08:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/03/23 12:50	07/05/23 08:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			07/03/23 12:50	07/05/23 08:16	1
o-Terphenyl	108		70 - 130			07/03/23 12:50	07/05/23 08:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		4.95	mg/Kg			07/06/23 09:44	1

Surrogate Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4886-1	SW06	102	96
890-4886-1 MS	SW06	120	93
890-4886-1 MSD	SW06	119	92
890-4886-2	FS08	108	96
890-4886-3	SW07	103	96
890-4886-4	FS09	111	99
890-4886-5	SW08	108	97
890-4886-6	FS10	96	100
890-4886-7	SW09	108	104
LCS 880-56855/1-A	Lab Control Sample	100	92
LCSD 880-56855/2-A	Lab Control Sample Dup	113	100
MB 880-56855/5-A	Method Blank	98	107
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4886-1	SW06	110	94
890-4886-2	FS08	134 S1+	115
890-4886-3	SW07	131 S1+	112
890-4886-4	FS09	81	68 S1-
890-4886-5	SW08	133 S1+	117
890-4886-6	FS10	145 S1+	123
890-4886-7	SW09	120	108
890-4887-A-3-D MS	Matrix Spike	107	87
890-4887-A-3-E MSD	Matrix Spike Duplicate	126	100
LCS 880-56907/2-A	Lab Control Sample	88	80
LCSD 880-56907/3-A	Lab Control Sample Dup	93	83
MB 880-56907/1-A	Method Blank	162 S1+	148 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56855/5-A

Matrix: Solid

Analysis Batch: 56822

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56855

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/03/23 10:03	07/03/23 14:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/03/23 10:03	07/03/23 14:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/03/23 10:03	07/03/23 14:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/03/23 10:03	07/03/23 14:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/03/23 10:03	07/03/23 14:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/03/23 10:03	07/03/23 14:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/03/23 10:03	07/03/23 14:13	1
1,4-Difluorobenzene (Surr)	107		70 - 130	07/03/23 10:03	07/03/23 14:13	1

Lab Sample ID: LCS 880-56855/1-A

Matrix: Solid

Analysis Batch: 56822

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1158		mg/Kg		116	70 - 130
Toluene	0.100	0.1217		mg/Kg		122	70 - 130
Ethylbenzene	0.100	0.09331		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1785		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08384		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-56855/2-A

Matrix: Solid

Analysis Batch: 56822

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56855

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1274		mg/Kg		127	70 - 130	10	35
Toluene	0.100	0.1303		mg/Kg		130	70 - 130	7	35
Ethylbenzene	0.100	0.1093		mg/Kg		109	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2112		mg/Kg		106	70 - 130	17	35
o-Xylene	0.100	0.1027		mg/Kg		103	70 - 130	20	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-4886-1 MS

Matrix: Solid

Analysis Batch: 56822

Client Sample ID: SW06

Prep Type: Total/NA

Prep Batch: 56855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0994	0.1200		mg/Kg		121	70 - 130
Toluene	<0.00200	U F1	0.0994	0.1287		mg/Kg		129	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

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

Lab Sample ID: 890-4886-1 MS

Matrix: Solid

Analysis Batch: 56822

Client Sample ID: SW06

Prep Type: Total/NA

Prep Batch: 56855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0994	0.1103		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2254		mg/Kg		113	70 - 130
o-Xylene	<0.00200	U	0.0994	0.1075		mg/Kg		108	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-4886-1 MSD

Matrix: Solid

Analysis Batch: 56822

Client Sample ID: SW06

Prep Type: Total/NA

Prep Batch: 56855

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1288		mg/Kg		129	70 - 130	7	35
Toluene	<0.00200	U F1	0.0996	0.1423	F1	mg/Kg		143	70 - 130	10	35
Ethylbenzene	<0.00200	U	0.0996	0.1164		mg/Kg		117	70 - 130	5	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2354		mg/Kg		118	70 - 130	4	35
o-Xylene	<0.00200	U	0.0996	0.1116		mg/Kg		112	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: MB 880-56907/1-A

Matrix: Solid

Analysis Batch: 56814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56907

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/03/23 12:50	07/03/23 20:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/03/23 12:50	07/03/23 20:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/03/23 12:50	07/03/23 20:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130	07/03/23 12:50	07/03/23 20:16	1
o-Terphenyl	148	S1+	70 - 130	07/03/23 12:50	07/03/23 20:16	1

Lab Sample ID: LCS 880-56907/2-A

Matrix: Solid

Analysis Batch: 56814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	921.8		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	868.7		mg/Kg		87	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

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

Lab Sample ID: LCS 880-56907/2-A
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56907

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: LCSD 880-56907/3-A
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56907

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	875.8		mg/Kg		88	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	838.2		mg/Kg		84	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 890-4887-A-3-D MS
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 56907

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1108		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)	963	F1	1000	1600	F1	mg/Kg		64	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 890-4887-A-3-E MSD
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 56907

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	939.5		mg/Kg		91	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	963	F1	997	1875		mg/Kg		91	70 - 130	16	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	100		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56898/1-A

Matrix: Solid

Analysis Batch: 57017

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/05/23 19:29	1

Lab Sample ID: LCS 880-56898/2-A

Matrix: Solid

Analysis Batch: 57017

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.1		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-56898/3-A

Matrix: Solid

Analysis Batch: 57017

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	240.0		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-4886-3 MS

Matrix: Solid

Analysis Batch: 57017

Client Sample ID: SW07

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	477	F1	250	661.2	F1	mg/Kg		74	90 - 110

Lab Sample ID: 890-4886-3 MSD

Matrix: Solid

Analysis Batch: 57017

Client Sample ID: SW07

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	477	F1	250	666.8	F1	mg/Kg		76	90 - 110	1	20

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QC Association Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

GC VOA

Analysis Batch: 56822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4886-1	SW06	Total/NA	Solid	8021B	56855
890-4886-2	FS08	Total/NA	Solid	8021B	56855
890-4886-3	SW07	Total/NA	Solid	8021B	56855
890-4886-4	FS09	Total/NA	Solid	8021B	56855
890-4886-5	SW08	Total/NA	Solid	8021B	56855
890-4886-6	FS10	Total/NA	Solid	8021B	56855
890-4886-7	SW09	Total/NA	Solid	8021B	56855
MB 880-56855/5-A	Method Blank	Total/NA	Solid	8021B	56855
LCS 880-56855/1-A	Lab Control Sample	Total/NA	Solid	8021B	56855
LCSD 880-56855/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56855
890-4886-1 MS	SW06	Total/NA	Solid	8021B	56855
890-4886-1 MSD	SW06	Total/NA	Solid	8021B	56855

Prep Batch: 56855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4886-1	SW06	Total/NA	Solid	5035	
890-4886-2	FS08	Total/NA	Solid	5035	
890-4886-3	SW07	Total/NA	Solid	5035	
890-4886-4	FS09	Total/NA	Solid	5035	
890-4886-5	SW08	Total/NA	Solid	5035	
890-4886-6	FS10	Total/NA	Solid	5035	
890-4886-7	SW09	Total/NA	Solid	5035	
MB 880-56855/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56855/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56855/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4886-1 MS	SW06	Total/NA	Solid	5035	
890-4886-1 MSD	SW06	Total/NA	Solid	5035	

Analysis Batch: 56999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4886-1	SW06	Total/NA	Solid	Total BTEX	
890-4886-2	FS08	Total/NA	Solid	Total BTEX	
890-4886-3	SW07	Total/NA	Solid	Total BTEX	
890-4886-4	FS09	Total/NA	Solid	Total BTEX	
890-4886-5	SW08	Total/NA	Solid	Total BTEX	
890-4886-6	FS10	Total/NA	Solid	Total BTEX	
890-4886-7	SW09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 56814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4886-1	SW06	Total/NA	Solid	8015B NM	56907
890-4886-2	FS08	Total/NA	Solid	8015B NM	56907
890-4886-3	SW07	Total/NA	Solid	8015B NM	56907
890-4886-4	FS09	Total/NA	Solid	8015B NM	56907
890-4886-5	SW08	Total/NA	Solid	8015B NM	56907
890-4886-6	FS10	Total/NA	Solid	8015B NM	56907
890-4886-7	SW09	Total/NA	Solid	8015B NM	56907
MB 880-56907/1-A	Method Blank	Total/NA	Solid	8015B NM	56907
LCS 880-56907/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56907

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QC Association Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

GC Semi VOA (Continued)

Analysis Batch: 56814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-56907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56907
890-4887-A-3-D MS	Matrix Spike	Total/NA	Solid	8015B NM	56907
890-4887-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56907

Prep Batch: 56907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4886-1	SW06	Total/NA	Solid	8015NM Prep	
890-4886-2	FS08	Total/NA	Solid	8015NM Prep	
890-4886-3	SW07	Total/NA	Solid	8015NM Prep	
890-4886-4	FS09	Total/NA	Solid	8015NM Prep	
890-4886-5	SW08	Total/NA	Solid	8015NM Prep	
890-4886-6	FS10	Total/NA	Solid	8015NM Prep	
890-4886-7	SW09	Total/NA	Solid	8015NM Prep	
MB 880-56907/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56907/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4887-A-3-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4887-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4886-1	SW06	Total/NA	Solid	8015 NM	
890-4886-2	FS08	Total/NA	Solid	8015 NM	
890-4886-3	SW07	Total/NA	Solid	8015 NM	
890-4886-4	FS09	Total/NA	Solid	8015 NM	
890-4886-5	SW08	Total/NA	Solid	8015 NM	
890-4886-6	FS10	Total/NA	Solid	8015 NM	
890-4886-7	SW09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4886-1	SW06	Soluble	Solid	DI Leach	
890-4886-2	FS08	Soluble	Solid	DI Leach	
890-4886-3	SW07	Soluble	Solid	DI Leach	
890-4886-4	FS09	Soluble	Solid	DI Leach	
890-4886-5	SW08	Soluble	Solid	DI Leach	
890-4886-6	FS10	Soluble	Solid	DI Leach	
890-4886-7	SW09	Soluble	Solid	DI Leach	
MB 880-56898/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56898/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56898/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4886-3 MS	SW07	Soluble	Solid	DI Leach	
890-4886-3 MSD	SW07	Soluble	Solid	DI Leach	

Analysis Batch: 57017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4886-1	SW06	Soluble	Solid	300.0	56898
890-4886-2	FS08	Soluble	Solid	300.0	56898
890-4886-3	SW07	Soluble	Solid	300.0	56898

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QC Association Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

HPLC/IC (Continued)

Analysis Batch: 57017 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4886-4	FS09	Soluble	Solid	300.0	56898
890-4886-5	SW08	Soluble	Solid	300.0	56898
890-4886-6	FS10	Soluble	Solid	300.0	56898
890-4886-7	SW09	Soluble	Solid	300.0	56898
MB 880-56898/1-A	Method Blank	Soluble	Solid	300.0	56898
LCS 880-56898/2-A	Lab Control Sample	Soluble	Solid	300.0	56898
LCSD 880-56898/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56898
890-4886-3 MS	SW07	Soluble	Solid	300.0	56898
890-4886-3 MSD	SW07	Soluble	Solid	300.0	56898

Lab Chronicle

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Client Sample ID: SW06

Lab Sample ID: 890-4886-1

Date Collected: 06/29/23 10:55

Matrix: Solid

Date Received: 06/30/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	56855	07/03/23 10:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56822	07/03/23 14:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56999	07/05/23 12:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			56974	07/05/23 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56907	07/03/23 12:50	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/04/23 10:59	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56898	07/03/23 11:57	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57017	07/06/23 08:45	CH	EET MID

Client Sample ID: FS08

Lab Sample ID: 890-4886-2

Date Collected: 06/29/23 14:20

Matrix: Solid

Date Received: 06/30/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56855	07/03/23 10:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56822	07/03/23 15:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56999	07/05/23 12:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			56974	07/05/23 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56907	07/03/23 12:50	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/04/23 11:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56898	07/03/23 11:57	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	57017	07/06/23 08:51	CH	EET MID

Client Sample ID: SW07

Lab Sample ID: 890-4886-3

Date Collected: 06/29/23 13:20

Matrix: Solid

Date Received: 06/30/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	56855	07/03/23 10:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56822	07/03/23 15:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56999	07/05/23 12:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			56974	07/05/23 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56907	07/03/23 12:50	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/04/23 11:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56898	07/03/23 11:57	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57017	07/06/23 08:57	CH	EET MID

Client Sample ID: FS09

Lab Sample ID: 890-4886-4

Date Collected: 06/29/23 15:30

Matrix: Solid

Date Received: 06/30/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	56855	07/03/23 10:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56822	07/03/23 15:43	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56999	07/05/23 12:49	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Client Sample ID: FS09

Lab Sample ID: 890-4886-4

Date Collected: 06/29/23 15:30

Matrix: Solid

Date Received: 06/30/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			56974	07/05/23 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	56907	07/03/23 12:50	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/05/23 06:59	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56898	07/03/23 11:57	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57017	07/06/23 09:14	CH	EET MID

Client Sample ID: SW08

Lab Sample ID: 890-4886-5

Date Collected: 06/29/23 14:25

Matrix: Solid

Date Received: 06/30/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	56855	07/03/23 10:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56822	07/03/23 16:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56999	07/05/23 12:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			56974	07/05/23 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56907	07/03/23 12:50	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/05/23 07:23	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	56898	07/03/23 11:57	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57017	07/06/23 09:20	CH	EET MID

Client Sample ID: FS10

Lab Sample ID: 890-4886-6

Date Collected: 06/29/23 15:40

Matrix: Solid

Date Received: 06/30/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	56855	07/03/23 10:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56822	07/03/23 16:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56999	07/05/23 12:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			56974	07/05/23 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56907	07/03/23 12:50	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/05/23 07:54	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56898	07/03/23 11:57	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57017	07/06/23 09:38	CH	EET MID

Client Sample ID: SW09

Lab Sample ID: 890-4886-7

Date Collected: 06/29/23 15:35

Matrix: Solid

Date Received: 06/30/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	56855	07/03/23 10:03	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56822	07/03/23 16:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56999	07/05/23 12:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			56974	07/05/23 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	56907	07/03/23 12:50	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/05/23 08:16	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Client Sample ID: SW09
Date Collected: 06/29/23 15:35
Date Received: 06/30/23 11:00

Lab Sample ID: 890-4886-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	56898	07/03/23 11:57	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57017	07/06/23 09:44	CH	EET MID

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 183 Q

Job ID: 890-4886-1
SDG: 03C1588243

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4886-1	SW06	Solid	06/29/23 10:55	06/30/23 11:00	0 - 6
890-4886-2	FS08	Solid	06/29/23 14:20	06/30/23 11:00	6
890-4886-3	SW07	Solid	06/29/23 13:20	06/30/23 11:00	0 - 6
890-4886-4	FS09	Solid	06/29/23 15:30	06/30/23 11:00	4
890-4886-5	SW08	Solid	06/29/23 14:25	06/30/23 11:00	0 - 6
890-4886-6	FS10	Solid	06/29/23 15:40	06/30/23 11:00	4
890-4886-7	SW09	Solid	06/29/23 15:35	06/30/23 11:00	0 - 4

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Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1256
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

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Project Manager:	Ben Belli	Bill to: (if different)	Garrett Green
Company Name:	ENSOLUM, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments			
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐		
State of Project:			
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐		
Deliverables:	EDD ☐ ADAPT ☐ Other: _____		

Project Name:	Poker Lake Unit 1830	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	0301588243	Due Date:	5 days		
Project Location:	32-24083-103.01910	TAT starts the day received by the lab if received by 4:30pm			
Sampler's Name:	Mariah O'Dell	Corrected Temperature:			
PO #:					
SAMPLE RECEIPT					
Samples Received Intact:	Yes ☒ No ☐	Temp Blank:	Yes ☒ No ☐	Thermometer ID:	7100007
Cooler Custody Seals:	Yes ☒ No ☐ N/A ☐	Correction Factor:			
Sample Custody Seals:	Yes ☒ No ☐ N/A ☐	Temperature Reading:	3.8		
Total Containers:		Corrected Temperature:	3.6		
ANALYSIS REQUEST					
Chlorides BTEX TPH  890-486 Chain of Custody					
Preservative Codes					
None: NO DI Water: H₂O Cool: Cool MeOH: Me HCL: HCL HNO₃: HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NASO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SASC					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments
SW010	S	10/24/23	10:55	0-10'	C	1	Incident #:
ES08	S	14:20	10'	C			MAPP 2316133557
SW01	S	13:20	0-10'	C			Cost center:
ES09	S	15:30	14'	C			1137901001
SW08	S	14:25	0-10'	C			
ES10	S	15:40	14'	C			
SW09	S	15:35	0-14'	C			API: 30-015-33224

Ben Belli
bbelli@ensolum.com

Total 2007 / 6010	2008 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SIO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471	

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 \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <i>Mariah</i>	<i>Ben Belli</i>	10:30:23 10/24			
3.					
5.					

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Chain of Custody Record



1000

Chain of Custody Record

Ver. 06/08/2021

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4886-1

SDG Number: 03C1588243

Login Number: 4886

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4886-1

SDG Number: 03C1588243

Login Number: 4886

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 07/03/23 08:26 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 7/28/2023 11:36:00 AM

JOB DESCRIPTION

Poker Lake Unit 183Q

SDG NUMBER 03C1558243

JOB NUMBER

890-4959-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
7/28/2023 11:36:00 AM

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

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Laboratory Job ID: 890-4959-1
SDG: 03C1558243

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Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD 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
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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	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
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)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

Job ID: 890-4959-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-4959-1**

Receipt

The samples were received on 7/18/2023 12:47 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW10 (890-4959-1) and SW11 (890-4959-2).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4956-A-12-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58267 recovered above the upper control limit for m-Xylene & p-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58267/2).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-58153 and analytical batch 880-58267 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.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58267 recovered above the upper control limit for Benzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58267/51).

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 sample was outside control limits: (MB 880-58344/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

Client Sample ID: SW10

Lab Sample ID: 890-4959-1

Date Collected: 07/18/23 10:00

Matrix: Solid

Date Received: 07/18/23 12:47

Sample Depth: 0 - 4

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		07/20/23 14:20	07/23/23 00:40	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/20/23 14:20	07/23/23 00:40	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/20/23 14:20	07/23/23 00:40	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/20/23 14:20	07/23/23 00:40	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/20/23 14:20	07/23/23 00:40	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/20/23 14:20	07/23/23 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	07/20/23 14:20	07/23/23 00:40	1
1,4-Difluorobenzene (Surr)	84		70 - 130	07/20/23 14:20	07/23/23 00:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			07/28/23 12:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/24/23 16:45	07/27/23 19:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/24/23 16:45	07/27/23 19:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/24/23 16:45	07/27/23 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	07/24/23 16:45	07/27/23 19:07	1
o-Terphenyl	121		70 - 130	07/24/23 16:45	07/27/23 19:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.2		4.98	mg/Kg			07/19/23 18:58	1

Client Sample ID: SW11

Lab Sample ID: 890-4959-2

Date Collected: 07/18/23 10:35

Matrix: Solid

Date Received: 07/18/23 12:47

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:20	07/23/23 01:00	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:20	07/23/23 01:00	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:20	07/23/23 01:00	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/20/23 14:20	07/23/23 01:00	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:20	07/23/23 01:00	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/20/23 14:20	07/23/23 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/20/23 14:20	07/23/23 01:00	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

Client Sample ID: SW11

Lab Sample ID: 890-4959-2

Date Collected: 07/18/23 10:35

Matrix: Solid

Date Received: 07/18/23 12:47

Sample Depth: 0 - 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	70		70 - 130	07/20/23 14:20	07/23/23 01:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			07/28/23 12:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		07/24/23 16:45	07/27/23 19:29	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		07/24/23 16:45	07/27/23 19:29	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/24/23 16:45	07/27/23 19:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			07/24/23 16:45	07/27/23 19:29	1
o-Terphenyl	103		70 - 130			07/24/23 16:45	07/27/23 19:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.3		5.05	mg/Kg			07/20/23 21:13	1

Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4956-A-12-C MS	Matrix Spike	105	109
890-4956-A-12-D MSD	Matrix Spike Duplicate	67 S1-	102
890-4959-1	SW10	80	84
890-4959-2	SW11	92	70
LCS 880-58153/1-A	Lab Control Sample	107	103
LCSD 880-58153/2-A	Lab Control Sample Dup	114	107
MB 880-58152/5-A	Method Blank	72	87
MB 880-58153/5-A	Method Blank	73	89
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4959-1	SW10	98	121
890-4959-2	SW11	84	103
890-4967-A-3-D MS	Matrix Spike	88	98
890-4967-A-3-E MSD	Matrix Spike Duplicate	100	110
LCS 880-58344/2-A	Lab Control Sample	96	123
LCSD 880-58344/3-A	Lab Control Sample Dup	92	112
MB 880-58344/1-A	Method Blank	146 S1+	183 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58152/5-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58152

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 11:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 11:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 11:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/20/23 14:04	07/22/23 11:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 11:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/20/23 14:04	07/22/23 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	07/20/23 14:04	07/22/23 11:37	1
1,4-Difluorobenzene (Surr)	87		70 - 130	07/20/23 14:04	07/22/23 11:37	1

Lab Sample ID: MB 880-58153/5-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58153

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:20	07/22/23 22:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:20	07/22/23 22:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:20	07/22/23 22:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/20/23 14:20	07/22/23 22:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:20	07/22/23 22:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/20/23 14:20	07/22/23 22:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	07/20/23 14:20	07/22/23 22:15	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/20/23 14:20	07/22/23 22:15	1

Lab Sample ID: LCS 880-58153/1-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58153

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1275		mg/Kg		127	70 - 130
Toluene	0.100	0.1089		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1194		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2473		mg/Kg		124	70 - 130
o-Xylene	0.100	0.1220		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-58153/2-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58153

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1125		mg/Kg		113	70 - 130	12	35

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

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

Lab Sample ID: LCSD 880-58153/2-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58153

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09756		mg/Kg		98	70 - 130	11	35
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2298		mg/Kg		115	70 - 130	7	35
o-Xylene	0.100	0.1139		mg/Kg		114	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-4956-A-12-C MS

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 58153

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1 F2	0.0994	0.1079		mg/Kg		109	70 - 130
Toluene	<0.00200	U F1 F2	0.0994	0.08779		mg/Kg		87	70 - 130
Ethylbenzene	<0.00200	U F1 F2	0.0994	0.09645		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.199	0.1954		mg/Kg		98	70 - 130
o-Xylene	<0.00200	U F1 F2	0.0994	0.09653		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-4956-A-12-D MSD

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 58153

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.0998	0.05218	F1 F2	mg/Kg		52	70 - 130	70	35
Toluene	<0.00200	U F1 F2	0.0998	0.04482	F1 F2	mg/Kg		44	70 - 130	65	35
Ethylbenzene	<0.00200	U F1 F2	0.0998	0.04466	F1 F2	mg/Kg		45	70 - 130	73	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.08105	F1 F2	mg/Kg		40	70 - 130	83	35
o-Xylene	<0.00200	U F1 F2	0.0998	0.04170	F1 F2	mg/Kg		41	70 - 130	79	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-58344/1-A

Matrix: Solid

Analysis Batch: 58605

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58344

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/24/23 10:38	07/27/23 08:53	1

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

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

Lab Sample ID: MB 880-58344/1-A
Matrix: Solid
Analysis Batch: 58605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58344

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/24/23 10:38	07/27/23 08:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/24/23 10:38	07/27/23 08:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130			07/24/23 10:38	07/27/23 08:53	1
o-Terphenyl	183	S1+	70 - 130			07/24/23 10:38	07/27/23 08:53	1

Lab Sample ID: LCS 880-58344/2-A
Matrix: Solid
Analysis Batch: 58605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58344

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	864.9		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	948.4		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	96		70 - 130				
o-Terphenyl	123		70 - 130				

Lab Sample ID: LCSD 880-58344/3-A
Matrix: Solid
Analysis Batch: 58605

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58344

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	811.0		mg/Kg		81	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	885.4		mg/Kg		89	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	92		70 - 130						
o-Terphenyl	112		70 - 130						

Lab Sample ID: 890-4967-A-3-D MS
Matrix: Solid
Analysis Batch: 58605

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58344

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	997	1279		mg/Kg		125	70 - 130
Diesel Range Organics (Over C10-C28)	51.4		997	878.8		mg/Kg		83	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	88		70 - 130						
o-Terphenyl	98		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

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

Lab Sample ID: 890-4967-A-3-E MSD

Matrix: Solid

Analysis Batch: 58605

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 58344

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	997	1304		mg/Kg		128	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	51.4		997	996.1		mg/Kg		95	70 - 130	13	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	110		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58027/1-A

Matrix: Solid

Analysis Batch: 58062

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/19/23 16:29	1

Lab Sample ID: LCS 880-58027/2-A

Matrix: Solid

Analysis Batch: 58062

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.6		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-58027/3-A

Matrix: Solid

Analysis Batch: 58062

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	240.4		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-30939-A-9-B MS

Matrix: Solid

Analysis Batch: 58062

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	11900		4970	16760		mg/Kg		98	90 - 110

Lab Sample ID: 880-30939-A-9-C MSD

Matrix: Solid

Analysis Batch: 58062

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11900		4970	16790		mg/Kg		99	90 - 110	0	20

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-58013/1-A

Matrix: Solid

Analysis Batch: 58159

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/20/23 18:10	1

Lab Sample ID: LCS 880-58013/2-A

Matrix: Solid

Analysis Batch: 58159

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.4		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-58013/3-A

Matrix: Solid

Analysis Batch: 58159

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	241.7		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-4957-A-11-B MS

Matrix: Solid

Analysis Batch: 58159

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	135		249	361.0		mg/Kg		91	90 - 110

Lab Sample ID: 890-4957-A-11-C MSD

Matrix: Solid

Analysis Batch: 58159

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	135		249	363.1		mg/Kg		92	90 - 110	1	20

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QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

GC VOA

Prep Batch: 58152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58152/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 58153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4959-1	SW10	Total/NA	Solid	5035	
890-4959-2	SW11	Total/NA	Solid	5035	
MB 880-58153/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58153/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58153/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4956-A-12-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4956-A-12-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 58267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4959-1	SW10	Total/NA	Solid	8021B	58153
890-4959-2	SW11	Total/NA	Solid	8021B	58153
MB 880-58152/5-A	Method Blank	Total/NA	Solid	8021B	58152
MB 880-58153/5-A	Method Blank	Total/NA	Solid	8021B	58153
LCS 880-58153/1-A	Lab Control Sample	Total/NA	Solid	8021B	58153
LCSD 880-58153/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58153
890-4956-A-12-C MS	Matrix Spike	Total/NA	Solid	8021B	58153
890-4956-A-12-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58153

Analysis Batch: 58330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4959-1	SW10	Total/NA	Solid	Total BTEX	
890-4959-2	SW11	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4959-1	SW10	Total/NA	Solid	8015NM Prep	
890-4959-2	SW11	Total/NA	Solid	8015NM Prep	
MB 880-58344/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58344/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58344/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4967-A-3-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4967-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4959-1	SW10	Total/NA	Solid	8015B NM	58344
890-4959-2	SW11	Total/NA	Solid	8015B NM	58344
MB 880-58344/1-A	Method Blank	Total/NA	Solid	8015B NM	58344
LCS 880-58344/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58344
LCSD 880-58344/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58344
890-4967-A-3-D MS	Matrix Spike	Total/NA	Solid	8015B NM	58344
890-4967-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	58344

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QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

GC Semi VOA

Analysis Batch: 58723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4959-1	SW10	Total/NA	Solid	8015 NM	
890-4959-2	SW11	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4959-2	SW11	Soluble	Solid	DI Leach	
MB 880-58013/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58013/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58013/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4957-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4957-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 58027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4959-1	SW10	Soluble	Solid	DI Leach	
MB 880-58027/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58027/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58027/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30939-A-9-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-30939-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 58062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4959-1	SW10	Soluble	Solid	300.0	58027
MB 880-58027/1-A	Method Blank	Soluble	Solid	300.0	58027
LCS 880-58027/2-A	Lab Control Sample	Soluble	Solid	300.0	58027
LCSD 880-58027/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58027
880-30939-A-9-B MS	Matrix Spike	Soluble	Solid	300.0	58027
880-30939-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	58027

Analysis Batch: 58159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4959-2	SW11	Soluble	Solid	300.0	58013
MB 880-58013/1-A	Method Blank	Soluble	Solid	300.0	58013
LCS 880-58013/2-A	Lab Control Sample	Soluble	Solid	300.0	58013
LCSD 880-58013/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58013
890-4957-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	58013
890-4957-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	58013

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

Client Sample ID: SW10
Date Collected: 07/18/23 10:00
Date Received: 07/18/23 12:47

Lab Sample ID: 890-4959-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58153	07/20/23 14:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/23/23 00:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58330	07/24/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			58723	07/28/23 12:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58344	07/24/23 16:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58605	07/27/23 19:07	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58027	07/19/23 11:26	KS	EET MID
Soluble	Analysis	300.0		1			58062	07/19/23 18:58	CH	EET MID

Client Sample ID: SW11
Date Collected: 07/18/23 10:35
Date Received: 07/18/23 12:47

Lab Sample ID: 890-4959-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	58153	07/20/23 14:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/23/23 01:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58330	07/24/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			58723	07/28/23 12:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58344	07/24/23 16:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58605	07/27/23 19:29	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58013	07/19/23 10:14	KS	EET MID
Soluble	Analysis	300.0		1			58159	07/20/23 21:13	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 183Q

Job ID: 890-4959-1
SDG: 03C1558243

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Job ID: 890-4959-1
SDG: 03C1558243

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4959-1	SW10	Solid	07/18/23 10:00	07/18/23 12:47	0 - 4
890-4959-2	SW11	Solid	07/18/23 10:35	07/18/23 12:47	0 - 4

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7650, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

Page 1 of 1
www.xenco.com

Project Manager:	Ben Beilli	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:		Poker Lake Unit 183Q		Turn Around		Pres. Code		ANALYSIS REQUEST		Preservative Codes	
Project Number:		03C1558243		☒ Routine ☐ Rush						None: NO	
Project Location:				Due Date:						Cool: Cool	
Sampler's Name:		Connor Whitman		TAT starts the day received by the lab, if received by 4:30pm						HCL: HC	
PO #:										H ₂ SO ₄ : H ₂	
SAMPLE RECEIPT		Temp Blank:		☒ Yes ☐ No		Wet Ice:		☒ Yes ☐ No		H ₃ PO ₄ : HP	
Samples Received Inact:		☒ Yes ☐ No		Thermometer ID:		1110004 -0.2				NaHSO ₄ : NABIS	
Cooler Custody Seals:		☒ Yes ☐ No		Correction Factor:						Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		☒ Yes ☐ No		Temperature Reading:		1.0				Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:		1.0				NaOH+Ascorbic Acid: SAPC	
PARAMETERS IDES (EPA: 3000.0) 015) 3021)  890-4950 Chain of Custody											

[illegible]

Total	200.7 / 6010	200.8 / 6020:	
8RCRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U			Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 Xeno. A minimum charge of \$65.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	7-15-23 12:47			
2					
3					
4					
5					
6					

Revised Date: 04/25/2020 Rev. 2020

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 86220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



eurofins

Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4959-1

SDG Number: 03C1558243

Login Number: 4959

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4959-1

SDG Number: 03C1558243

Login Number: 4959

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 07/19/23 12:08 PM

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



APPENDIX E

NMOCD Notifications

From: [Green, Garrett J](#)
To: [Enviro, OCD, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Cc: [Ben Belill](#); [Tacoma Morrissey](#); [DelawareSpills /SM](#)
Subject: XTO - Sampling Notification (Week of 6/19/23 - 6/23/23)
Date: Friday, June 16, 2023 10:18:06 AM

[**EXTERNAL EMAIL **]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of June 19, 2023.

Thursday

- PLU 224 / nAPP2310050120
- PLU 183Q / nAPP2315133557

Friday

- PLU 224 / nAPP2310050120
- PLU 183Q / nAPP2315133557

Thank you,

Thank you,

Garrett Green

Environmental Coordinator

Delaware Business Unit

(575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From: [Collins, Melanie](#)
To: [ocd.enviro \(ocd.enviro@emnrd.nm.gov\)](#); [Bratcher, Michael, EMNRD \(mike.bratcher@emnrd.nm.gov\)](#); [Hamlet, Robert, EMNRD \(Robert.Hamlet@emnrd.nm.gov\)](#); [Harimon, Jocelyn, EMNRD \(Jocelyn.Harimon@emnrd.nm.gov\)](#)
Cc: [DelawareSpills /SM](#); [Ben Belili](#); [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,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Friday, July 14, 2023 9:44 AM
To: Collins, Melanie <melanie.collins@exxonmobil.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Updated XTO - Sampling Notification (Week of 7/17/23 - 7/21/23)

External Email – Think Before You Click

Melanie,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. The OCD has received your notification. When reporting sampling at multiple locations it is required to provide a date and time for each location. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Thursday, July 13, 2023 2:56 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Cc: spills@slo.state.nm.us; Green, Garrett J <garrett.green@exxonmobil.com>
Subject: [EXTERNAL] Updated XTO - Sampling Notification (Week of 7/17/23 - 7/21/23)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

XTO plans to complete final sampling activities at the sites listed below for the week of July 17, 2023.

Tuesday 7/18/23

- PLU 183Q / nAPP2315133557
- Remuda 500 Tank Battery / nAPP2317850727 (SLO)

Wednesday 7/19/23

- PLU 224 / nAPP2310050120
- Remuda 500 Tank Battery / nAPP2317850727 (SLO)

Thursday 7/20/23

- PLU 224 / nAPP2310050120
- James Ranch Unit 19 Battery / nAPP2317142256 (SLO)

Friday 7/21/23

- James Ranch Unit 19 Battery / nAPP2317142256 (SLO)

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 563790

QUESTIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 563790
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2315133557
Incident Name	NAPP2315133557 POKER LAKE UNIT 183Q @ O-06-24S-30E
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	POKER LAKE UNIT 183Q
Date Release Discovered	05/15/2023
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Other (Specify) Released: 0 (Unknown Released Amount) Recovered: 0 Lost: 0
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 563790

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 563790
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 03/17/2026
--	---

Sante Fe Main Office
Phone: (505) 476-3441

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

QUESTIONS, Page 3

Action 563790

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 563790
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	14800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	05/15/2023
On what date will (or did) the final sampling or liner inspection occur	07/18/2023
On what date will (or was) the remediation complete(d)	07/18/2023
What is the estimated surface area (in square feet) that will be reclaimed	1385
What is the estimated volume (in cubic yards) that will be reclaimed	260
What is the estimated surface area (in square feet) that will be remediated	1385
What is the estimated volume (in cubic yards) that will be remediated	260
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

QUESTIONS, Page 4

Action 563790

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 563790
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 03/17/2026
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 563790

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 563790
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 563790

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 563790
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	473665
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/20/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1385
What was the total volume (cubic yards) remediated	260
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1385
What was the total volume (in cubic yards) reclaimed	260
Summarize any additional remediation activities not included by answers (above)	Following backfill activities, the disturbed area was contoured to match the surrounding topography and the surface was prepared for seeding. Upon confirmation that the excavation was backfilled with non-waste containing material, the disturbed pasture area will be seeded with a certified weed-free seed mix. The BLM Seed Mix #2 will be used to seed the Site. The seed mix will be applied via drill seeding. The Site will be monitored for vegetation growth to ensure that reclamation activities were successful.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 03/17/2026

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Action 563790

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 563790
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	1385
What was the total volume of replacement material (in cubic yards) for this site	260
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	04/15/2026
Summarize any additional reclamation activities not included by answers (above)	Following backfill activities, the disturbed area was contoured to match the surrounding topography and the surface was prepared for seeding. Upon confirmation that the excavation was backfilled with non-waste containing material, the disturbed pasture area will be seeded with a certified weed-free seed mix. The BLM Seed Mix #2 will be used to seed the Site. The seed mix will be applied via drill seeding. The Site will be monitored for vegetation growth to ensure that reclamation activities were successful.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 03/17/2026

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Action 563790

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 563790
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 563790

CONDITIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 563790
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	4/22/2026