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

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2315133557
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Garrett Green	Contact Telephone 575-200-0729
Contact email garrett.green@exxonmobil.com	Incident # *(assigned by OCD)*
Contact mailing address 3104 E. Greene Street, Carlsbad, New Mexico, 88220	

Location of Release Source

Latitude 32.24083 Longitude -103.91910

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Poker Lake Unit 183Q	Site Type Production Well
Date Release Discovered 05/15/2023	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
O	06	24S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 3.29	Volume Recovered (bbls) 1.90
☒ Produced Water	Volume Released (bbls) 14.02	Volume Recovered (bbls) 8.10
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: External corrosion caused a flowline to release fluids to the soil. Vac truck recovered free fluids. A third-party contractor has been retained for remediation purposes.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2315133557
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
N/A

Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Garrett Green
Title: SSHE Coordinator
Signature: 
Date: 5/25/2023
email: garrett.green@exxonmobil.com
Telephone: 575-200-0729

OCD Only

Received by:
Date:

Location:	PLU 183Q	
Spill Date:	5/15/2023	
Area 1		
Approximate Area =	721.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	1.96	bbls
Total Produced Water =	8.36	bbls
Area 2		
Approximate Area =	1176.00	sq. ft.
Average Saturation (or depth) of spill =	4.00	inches
Average Porosity Factor =	0.10	
VOLUME OF LEAK		
Total Crude Oil =	1.33	bbls
Total Produced Water =	5.66	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	**3.29**	**bbls**
Total Produced Water =	**14.02**	**bbls**
TOTAL VOLUME RECOVERED		
Total Crude Oil =	**1.90**	**bbls**
Total Produced Water =	**8.10**	**bbls**

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 222192
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	None	6/2/2023

Incident ID	NAPP2315133557
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2315133557
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Facility ID	
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Garrett Green Title: Environmental Coordinator

Signature: Date: 8/11/2023

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: Shelly Wells Date: 8/11/2023

Incident ID	NAPP2315133557
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _Garrett Green_____ Title: _Environmental Coordinator_____

Signature: _____ Date: __8/11/2023_____

email: __garrett.green@exxonmobil.com_____ Telephone: ___575-200-0729_____

OCD Only

Received by: _Shelly Wells_____ Date: _8/11/2023_____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

ENSOLUM

August 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.

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 addtional delineation and excavation of impacted soil. Three potholes (PH01 through PH03) were advanced by

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.

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

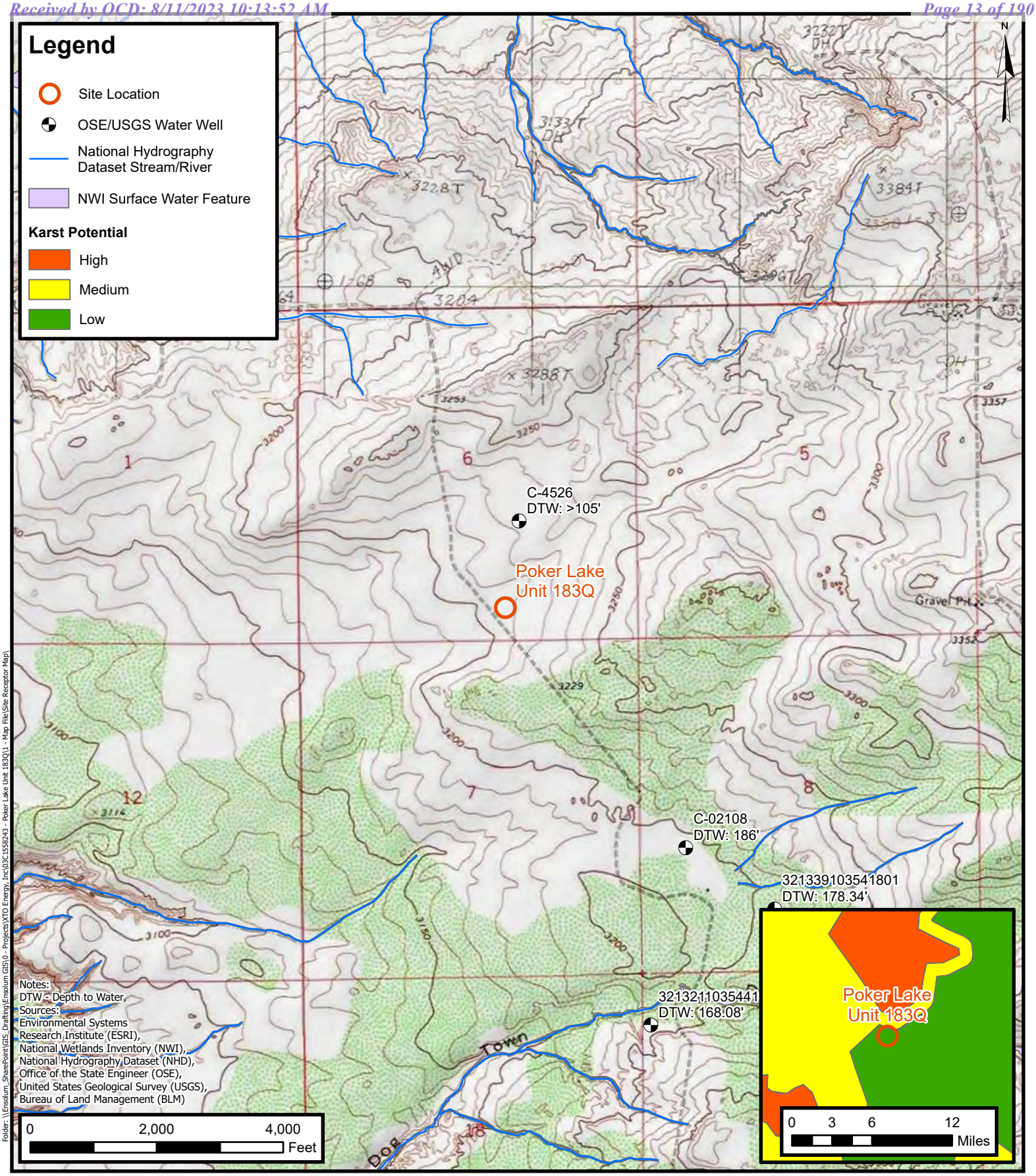
cc: Garrett Green, XTO
Shelby Pennington, XTO
BLM

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

ENSOLUM

FIGURES



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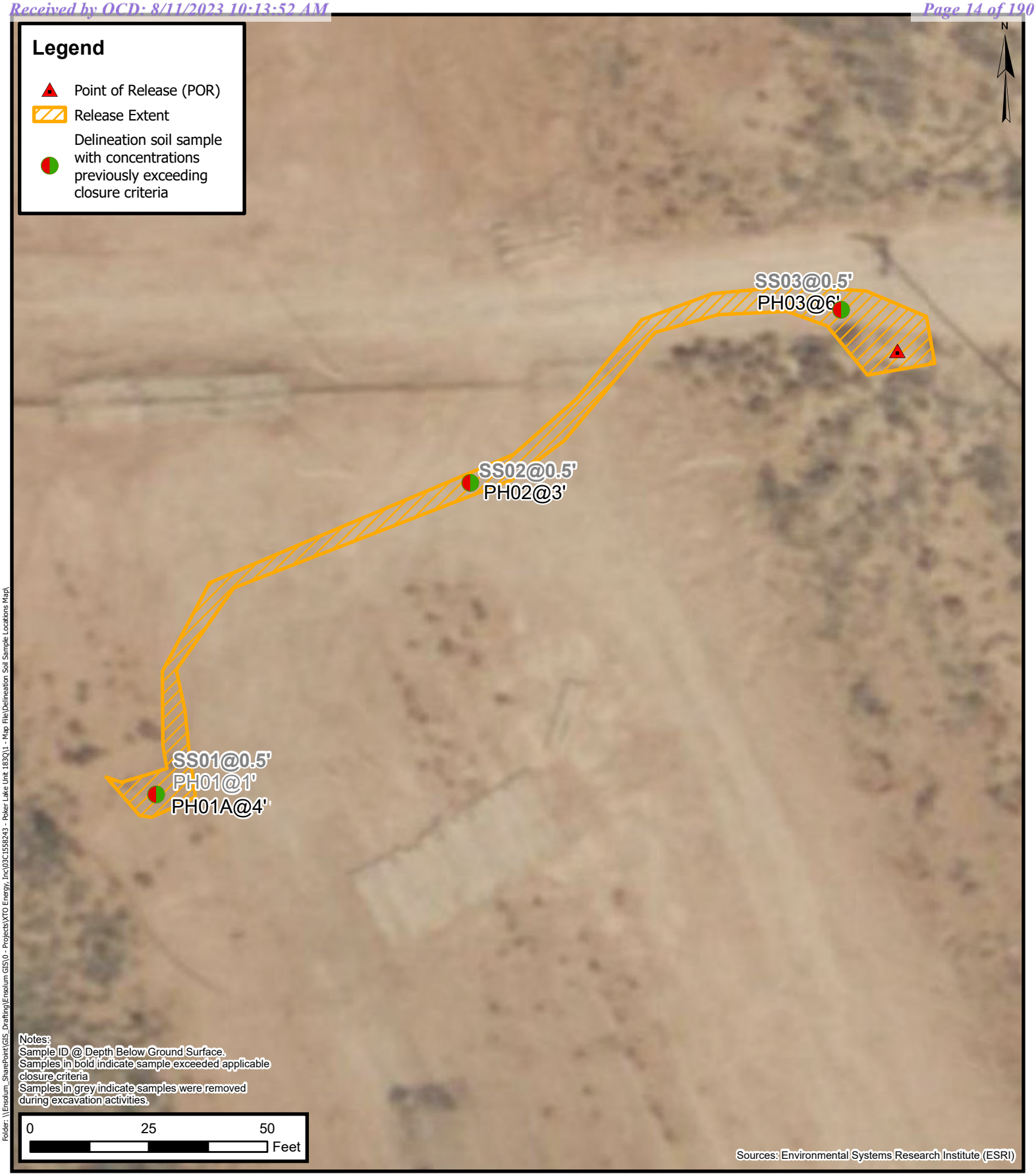
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

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

FIGURE 1



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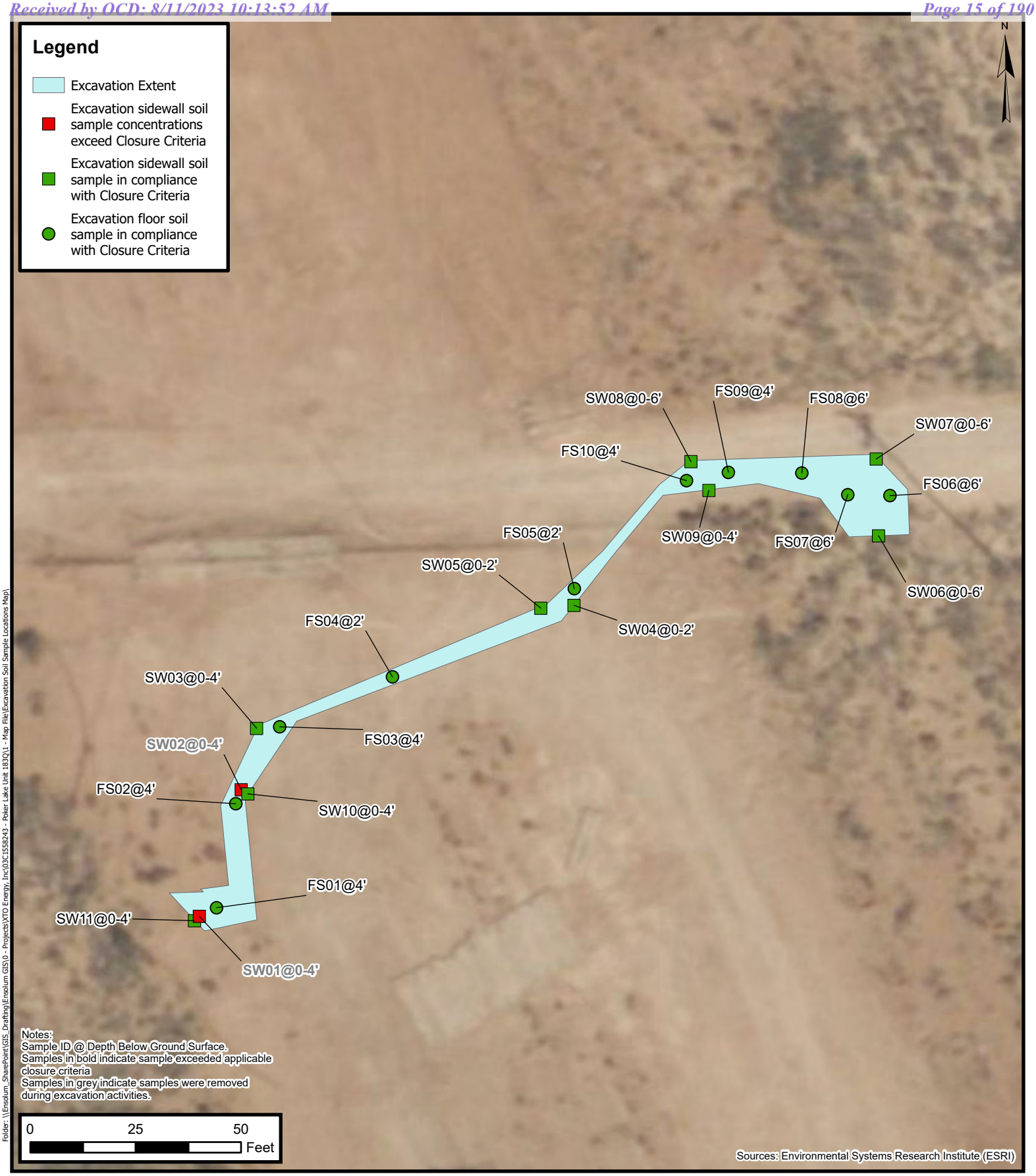
Delineation Soil Sample Locations

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

FIGURE 2



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Environmental, Engineering and Hydrogeologic Consultants

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

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TABLES

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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

ENSOLUM

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.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (MW-1)	n/a	C-4526

WELL OWNER NAME(S)	PHONE (OPTIONAL)
XTO Energy (Kyle Littrell)	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6401 Holiday Hill Dr.	Midland	TX	79707

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32°	14'	42.15"	N
	LONGITUDE	103°	55'	6.20"	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* 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.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
05/14/2021	05/14/2021	temporary well material	105	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) FROM	DEPTH (feet bgl) TO	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)
0	105	±6.5	Boring- HSA	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE

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

FILE NO.	C-4526	POD NO.	1	TRN NO.	692109
LOCATION	Exp1	24S.30E.6.414		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	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)
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	
				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:

Jack Atkins — 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	TRN NO. 692109
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

OSE DIT JUN 10 2021 PM 2:47

ENSOLUM

APPENDIX B

Photographic Log

ENSOLUM

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

ENSOLUM

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

ENSOLUM

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	Logged By: Mariaha O'Dell	Method: Backhoe
Coordinates: 32.240539, -103.919519	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
						0		
M	2,402	527.8	Y	SS01	0.5			
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	Logged By: Mariaha O'Dell	Method: Backhoe
Coordinates: 32.240684, -103.919406	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
						0		
M	364	39.6	Y	SS02	0.5			
D	<179	0.0	N		1	1	SW	Reddish brown Sand, vf-f grained, well graded. DRY
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	Logged By: Mariaha O'Dell	Method: Backhoe
Coordinates: 32.240816, -103.919048	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
						0		
M	17,466	224.6	Y	SS03	0.5			
D	6,821	1,695	N		1	1	SW	Reddish brown Sand, vf-f grained, well graded. DRY
D	8,014	93.7	N		2	2		
D	4,553	5.4	N		3	3		
D	17,466	0.6	N		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	PH03	6	6		

TD @ 6' bgs.

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

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

See page two for job notes and contact information.

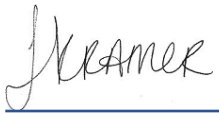
Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Table of Contents

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

Date Collected: 06/06/23 09:50
Date Received: 06/06/23 15:42
Sample Depth: 0.5'

Lab Sample ID: 890-4787-1

Matrix: Solid

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
OII 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

Date Collected: 06/06/23 09:55
Date Received: 06/06/23 15:42
Sample Depth: 0.5'

Lab Sample ID: 890-4787-2

Matrix: Solid

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*

Client Sample Results

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

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

Client Sample ID: SS02

Date Collected: 06/06/23 09:55
Date Received: 06/06/23 15:42
Sample Depth: 0.5'

Lab Sample ID: 890-4787-2

Matrix: Solid

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
OII 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

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 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

Eurofins Carlsbad

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
Oil 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)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(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

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 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 55086 — **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 — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 55086 — **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 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 55086 — **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 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 55236 — **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

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
OII 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*

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 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 55236 — **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 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 55120

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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 55120

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 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 55120

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 — **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	254		1250	1506		mg/Kg		100	90 - 110		

Lab Sample ID: 890-4784-A-1-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	254		1250	1511		mg/Kg		100	90 - 110	0	20

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
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	284		249	538.7		mg/Kg		102	90 - 110		

Lab Sample ID: 890-4786-A-2-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	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

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

Date Collected: 06/06/23 09:50
Date Received: 06/06/23 15:42

Lab Sample ID: 890-4787-1
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			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

Date Collected: 06/06/23 09:55
Date Received: 06/06/23 15:42

Lab Sample ID: 890-4787-2
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			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

Date Collected: 06/06/23 10:00
Date Received: 06/06/23 15:42

Lab Sample ID: 890-4787-3
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			5.00 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

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'

Chain of Custody

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

Work Order No: _____

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

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	
Project Number:	03C1588243	☑ Routine ☐ Rush	
Project Location:	32.24083, -103.9191	Due Date:	5 days
Sampler's Name:	Mariaha O'Dell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TMM-207
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	2.2
Total Containers:		Corrected Temperature:	2.0

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
SS01	S	6/6/2023	9:50	0.5'	G	1		x	x	x
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

Parameters

890-4787 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident ID:
nAPP2315133557
Cost Center:
1137901001

Tacoma Morrissey:
tmorrissey@ensolum.com

MO

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Mariaha	Amanda Stiff	6/6/23 1542			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

6/13/2023

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

See page two for job notes and contact information.

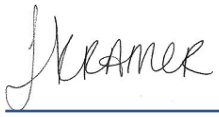
Eurofins Carlsbad

Job Notes

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

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

Authorization



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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

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-4858-1
Project/Site: Poker Lake Unit 183Q 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.

Client Sample Results

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

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

Client Sample ID: PH01

Date Collected: 06/23/23 09:30
Date Received: 06/23/23 16:35
Sample Depth: 1

Lab Sample ID: 890-4858-1
Matrix: Solid

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
OII 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

Date Collected: 06/23/23 09:45
Date Received: 06/23/23 16:35
Sample Depth: 4

Lab Sample ID: 890-4858-2
Matrix: Solid

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*

Eurofins Carlsbad

Client Sample Results

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

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

Client Sample ID: PH01A
Date Collected: 06/23/23 09:45
Date Received: 06/23/23 16:35
Sample Depth: 4

Lab Sample ID: 890-4858-2
Matrix: Solid

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
OII 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		

Eurofins Carlsbad

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
OII 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

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

Surrogate	LCS %Recovery	LCS 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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

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	999	1118		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1112		mg/Kg		110	70 - 130

Surrogate	MS %Recovery	MS 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

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	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

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

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

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	

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

Date Collected: 06/23/23 09:30
Date Received: 06/23/23 16:35

Lab Sample ID: 890-4858-1

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			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

Date Collected: 06/23/23 09:45
Date Received: 06/23/23 16:35

Lab Sample ID: 890-4858-2

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			4.96 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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Chain of Custody

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

Work Order No: _____

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Project Manager:	Ben Belill	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 183	Turn Around	
Project Number:	03C1589243	☒ Routine ☐ Rush	
Project Location:	32.24083, -103.91910	Due Date:	
Sampler's Name:	Mariana O'Dell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	NM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	18.2
Total Containers:		Corrected Temperature:	18.0

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX	Chlorides	TPH
PH01	S	10/23/23	9:30	~~1'~~ 1.5' MD	G	1		X	X	X
PH01A	S	10/23/23	9:45	~~4'~~ 4.5' MD	G	1		X	X	X

ANALYSIS REQUEST

890-4858 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident #:
nAPP2315133551
Cost center:
1137901001
API: 30-015-33224
Ben Belill:
bbelill@ensolum.com

MD

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 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		10-23-23 1635	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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	

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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

See page two for job notes and contact information.

my EOL

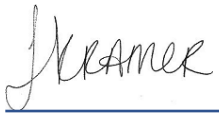
Eurofins Carlsbad

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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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

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-4867-1
Project/Site: Poker Lake Unit 183Q 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
Matrix: Solid
Date Collected: 06/26/23 09:30
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
OII 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
Matrix: Solid
Date Collected: 06/26/23 09:35
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
Matrix: Solid
Date Collected: 06/26/23 09:35
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
OII 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
Matrix: Solid
Date Collected: 06/26/23 09:40
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

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
Matrix: Solid
Date Collected: 06/26/23 09:40
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
OII 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
Matrix: Solid
Date Collected: 06/26/23 09:45
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
OII 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*

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
Matrix: Solid
Date Collected: 06/26/23 09:45
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
Matrix: Solid
Date Collected: 06/26/23 09:50
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
OII 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

Client Sample Results

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

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

Client Sample ID: FS01

Date Collected: 06/26/23 09:55
Date Received: 06/26/23 16:56
Sample Depth: 4

Lab Sample ID: 890-4867-6
Matrix: Solid

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
OII 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

Date Collected: 06/26/23 10:00
Date Received: 06/26/23 16:56
Sample Depth: 0 - 4

Lab Sample ID: 890-4867-7
Matrix: Solid

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
Matrix: Solid
Date Collected: 06/26/23 10:00
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
OII 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
Matrix: Solid
Date Collected: 06/26/23 14:00
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

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
Matrix: Solid
Date Collected: 06/26/23 14:00
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
OII 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
Matrix: Solid
Date Collected: 06/26/23 12:50
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
OII 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*

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
Matrix: Solid
Date Collected: 06/26/23 12:50
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
Matrix: Solid
Date Collected: 06/26/23 12:55
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
OII 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

Client Sample Results

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
Sample Depth: 0 - 2

Lab Sample ID: 890-4867-11

Matrix: Solid

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
OII 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

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

Surrogate Summary

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

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

OTPH = o-Terphenyl

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		

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

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

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

Surrogate	MSD %Recovery	MSD 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

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		06/29/23 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
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/29/23 09:50	06/29/23 21:29	1

Surrogate	MB %Recovery	MB 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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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	LCS %Recovery	LCS 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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

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

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

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	

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

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
Matrix: Solid
Date Collected: 06/26/23 09:30
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
Matrix: Solid
Date Collected: 06/26/23 09:35
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
Matrix: Solid
Date Collected: 06/26/23 09:40
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
Matrix: Solid
Date Collected: 06/26/23 09:45
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

Lab Chronicle

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

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

Client Sample ID: FS02
Date Collected: 06/26/23 09:45
Date Received: 06/26/23 16:56

Lab Sample ID: 890-4867-4
Matrix: Solid

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
Date Collected: 06/26/23 09:50
Date Received: 06/26/23 16:56

Lab Sample ID: 890-4867-5
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			5.03 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
Date Collected: 06/26/23 09:55
Date Received: 06/26/23 16:56

Lab Sample ID: 890-4867-6
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	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
Date Collected: 06/26/23 10:00
Date Received: 06/26/23 16:56

Lab Sample ID: 890-4867-7
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			5.02 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

Eurofins Carlsbad

Lab Chronicle

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

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

Client Sample ID: SW01
Date Collected: 06/26/23 10:00
Date Received: 06/26/23 16:56

Lab Sample ID: 890-4867-7
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	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
Date Collected: 06/26/23 14:00
Date Received: 06/26/23 16:56

Lab Sample ID: 890-4867-8
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 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
Date Collected: 06/26/23 12:50
Date Received: 06/26/23 16:56

Lab Sample ID: 890-4867-9
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			4.99 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
Date Collected: 06/26/23 12:55
Date Received: 06/26/23 16:56

Lab Sample ID: 890-4867-10
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			5.02 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

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

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

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Ben Belill	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 183H	Turn Around	
Project Number:	03C1588243	☒ Routine ☐ Rush	
Project Location:	32.24083, -103.91910	Due Date:	5 days
Sampler's Name:	Mariana O'Dell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.8
Sample Custody Seals:	Yes No N/A	Temperature Reading:	14.4
Total Containers:		Corrected Temperature:	14.2

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chlorides	TPH	BTEX	Sample Comments
PH02	S	6/20/23	9:30	3'	G	1	X	X	X	Incident #:
FS03	S		9:35	4'	C	1				nAPP2315233557
SW03	S		9:40	0-4'	C	1				
FS02	S		9:45	4'	C	1				Cost center:
SW02	S		9:50	0-4'	C	1				1137901001
FS01	S		9:55	4'	C	1				
SW01	S		10:00	0-4'	C	1				API: 30-015-33224
FS04	S		14:00	2'	C	1				
FS05	S		12:50	2'	C	1				Ben Belill:
SW04	S		12:55	0-2'	C	1				bbelill@ensolum.com

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

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 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		6.26.23 1651	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Ben Belill	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 180	Turn Around	
Project Number:	03C1588243	☐Routine ☐Rush	
Project Location:	32.24083, -103.91910	Due Date:	5 Day
Sampler's Name:	Mariaha ODell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	TPH	BTEX	Sample Comments
SW05	S	10/26/23	14:30	0-2'	C	1		X	X	X	Incident #: nAPP2315133557
											Cost Center: 1137901001
											API: 30-015-33224
										MD	Ben Belill: bbelill@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 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 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		10.26.23 1658	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-1346 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-4867-1
Address: 1211 W Florida Ave	Due Date Requested: 6/30/2023			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Poker Lake Unit 183Q	Project #: 89000093			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
PH02 (890-4867-1)	6/26/23	09 30 Mountain		Solid			X	X	X	X	X	1	
FS03 (890-4867-2)	6/26/23	09 35 Mountain		Solid			X	X	X	X	X	1	
SW03 (890-4867-3)	6/26/23	09 40 Mountain		Solid			X	X	X	X	X	1	
FS02 (890-4867-4)	6/26/23	09 45 Mountain		Solid			X	X	X	X	X	1	
SW02 (890-4867-5)	6/26/23	09 50 Mountain		Solid			X	X	X	X	X	1	
FS01 (890-4867-6)	6/26/23	09 55 Mountain		Solid			X	X	X	X	X	1	
SW01 (890-4867-7)	6/26/23	10 00 Mountain		Solid			X	X	X	X	X	1	
FS04 (890-4867-8)	6/26/23	14 00 Mountain		Solid			X	X	X	X	X	1	
FS05 (890-4867-9)	6/26/23	12 50 Mountain		Solid			X	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/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions 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	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.3/2.0

Ver: 06/08/2021

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer, Jessica	Carrier Tracking No(s)	COC No: 890-1346 2
Client Contact: Shipping/Receiving	Phone	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-4867-1
Address: 1211 W Florida Ave ,	Due Date Requested: 6/30/2023			
City: Midland	TAT Requested (days):			
State Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Poker Lake Unit 183Q	Project #: 89000093			
Site	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
SW04 (890-4867-10)	6/26/23	12 55 Mountain		Solid			X	X	X	X	X	1	
SW05 (890-4867-11)	6/26/23	14 30 Mountain		Solid			X	X	X	X	X	1	

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I - Ice, J DI Water, K EDTA, L EDA, M - Hexane, N None, O - AsNaO2, P Na2O4S, Q - Na2SO3, R Na2S2O3, S - H2SO4, T TSP Dodecahydrate, U - Acetone, V MCAA, W - pH 4-5, Y Trizma, Z other (specify)

Other:

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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions 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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

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	

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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

See page two for job notes and contact information.

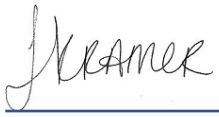
Eurofins Carlsbad

Job Notes

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

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

Authorization



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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

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-4874-1
Project/Site: Poker Lake Unit 183Q 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.
¤	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
Matrix: Solid
Date Collected: 06/27/23 09:10
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
OII 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
Matrix: Solid
Date Collected: 06/27/23 10:40
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*

Client Sample Results

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

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

Client Sample ID: FS06

Date Collected: 06/27/23 10:40
Date Received: 06/28/23 09:39
Sample Depth: 6

Lab Sample ID: 890-4874-2

Matrix: Solid

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
OII 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

Date Collected: 06/27/23 15:15
Date Received: 06/28/23 09:39
Sample Depth: 6

Lab Sample ID: 890-4874-3

Matrix: Solid

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

Date Collected: 06/27/23 15:15
Date Received: 06/28/23 09:39
Sample Depth: 6

Lab Sample ID: 890-4874-3

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	<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
OII 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)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(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

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

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
OII 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*

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 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 56775 — **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 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 56693

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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 56693

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 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 56693

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 — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 56693

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 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 56693

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

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	

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

Date Collected: 06/27/23 09:10
Date Received: 06/28/23 09:39

Lab Sample ID: 890-4874-1
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	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

Date Collected: 06/27/23 10:40
Date Received: 06/28/23 09:39

Lab Sample ID: 890-4874-2
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			4.97 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

Date Collected: 06/27/23 15:15
Date Received: 06/28/23 09:39

Lab Sample ID: 890-4874-3
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			4.96 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

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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Chain of Custody

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

Work Order No: ______

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Project Manager:	Ben Belill	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 183Q	Turn Around	
Project Number:	03C1588243	☒ Routine	☐ Rush
Project Location:	32.24083,-103.91910	Due Date:	5 day
Sampler's Name:	Mariana O'Dell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.0	
Total Containers:		Corrected Temperature:	0.8	

890-4874 Chain of Custody

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chlorides	TPH	BTEX	Sample Comments
PH03	S	10/27/23	9:10	6'	G	1	X	X	X	Incident #:
FS06	S	↓	10:40	6'	C	1	X	X	X	nAPP2315133557
FS07	S	↓	15:15	6'	C	1	X	X	X	
										Cost center:
										1137901001
										API: 30-015-33224
										Ben Belill:
										bbelill@ensolum.com

MO

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

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 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 M.O'Dell	Cloe C.	10-28-23 9:16			
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

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	

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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

See page two for job notes and contact information.

my EOL

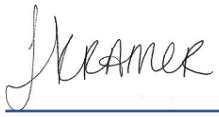
Eurofins Carlsbad

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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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

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-4886-1
Project/Site: POKER LAKE UNIT 183 Q 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.
¤	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
Matrix: Solid
Date Collected: 06/29/23 10:55
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
OII 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
Matrix: Solid
Date Collected: 06/29/23 14:20
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*

Eurofins Carlsbad

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
Matrix: Solid
Date Collected: 06/29/23 14:20
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
OII 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
Matrix: Solid
Date Collected: 06/29/23 13:20
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

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
Matrix: Solid
Date Collected: 06/29/23 13:20
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
OII 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
Matrix: Solid
Date Collected: 06/29/23 15:30
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
OII 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*

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
Matrix: Solid
Date Collected: 06/29/23 15:30
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
Matrix: Solid
Date Collected: 06/29/23 14:25
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
OII 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

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
Matrix: Solid
Date Collected: 06/29/23 15:40
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
OII 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
Matrix: Solid
Date Collected: 06/29/23 15:35
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*

Eurofins Carlsbad

Client Sample Results

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
Sample Depth: 0 - 4

Lab Sample ID: 890-4886-7
Matrix: Solid

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
OII 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

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		

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
OII 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

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

Surrogate	LCS %Recovery	LCS 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

Surrogate	LCSD %Recovery	LCSD 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
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

Surrogate	MS %Recovery	MS 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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	100		70 - 130

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

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

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

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

Date Collected: 06/29/23 10:55
Date Received: 06/30/23 11:00

Lab Sample ID: 890-4886-1
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			5.01 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

Date Collected: 06/29/23 14:20
Date Received: 06/30/23 11:00

Lab Sample ID: 890-4886-2
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			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

Date Collected: 06/29/23 13:20
Date Received: 06/30/23 11:00

Lab Sample ID: 890-4886-3
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			5.04 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

Date Collected: 06/29/23 15:30
Date Received: 06/30/23 11:00

Lab Sample ID: 890-4886-4
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			4.96 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

Eurofins Carlsbad

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
Matrix: Solid
Date Collected: 06/29/23 15:30
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
Matrix: Solid
Date Collected: 06/29/23 14:25
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
Matrix: Solid
Date Collected: 06/29/23 15:40
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
Matrix: Solid
Date Collected: 06/29/23 15:35
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

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

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

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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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Ben Belill	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 183H	Turn Around	
Project Number:	03C1588243	☒ Routine ☐ Rush	
Project Location:	32.24083, -103.91910	Due Date:	5 days
Sampler's Name:	Mariana O'Dell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TWM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.8
Total Containers:		Corrected Temperature:	3.6

ANALYSIS REQUEST

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

890-4886 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	BTEX	TPH	Sample Comments
SW010	S	10/29/23	10:55	0-10'	C	1		X	X	X	incident #:
FS08	S		11:20	10'	C						nAPP2315133557
SW07	S		13:20	0-10'	C						
FS09	S		15:30	4'	C						Cost center:
SW08	S		14:25	0-10'	C						1137901001
FS10	S		15:40	4'	C						
SW09	S		15:35	0-4'	C						API: 30-015-33224
											MD Ben Belill: bbelill@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 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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		6.30.23 1100			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-1351 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-4886-1
Address: 1211 W Florida Ave	Due Date Requested: 7/6/2023			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: POKER LAKE UNIT 183 Q	Project #: 89000093			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B - NaOH, C Zn Acetate, D - Nitric Acid, E NaHSO4, F - MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K - EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R - Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U Acetone, V - MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8016MOD_NM/8016NM_S_Prep (MOD) Full TPH	8016MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note.
			Preservation Code:										
SW06 (890-4886-1)	6/29/23	10 55 Mountain		Solid			X	X	X	X	X	1	
FS08 (890-4886-2)	6/29/23	14 20 Mountain		Solid			X	X	X	X	X	1	
SW07 (890-4886-3)	6/29/23	13 20 Mountain		Solid			X	X	X	X	X	1	
FS09 (890-4886-4)	6/29/23	15 30 Mountain		Solid			X	X	X	X	X	1	
SW08 (890-4886-5)	6/29/23	14 25 Mountain		Solid			X	X	X	X	X	1	
FS10 (890-4886-6)	6/29/23	15 40 Mountain		Solid			X	X	X	X	X	1	
SW09 (890-4886-7)	6/29/23	15 35 Mountain		Solid			X	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/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions 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*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II, III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:		
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No		Cooler Temperature(s) °C and Other Remarks:		

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	

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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

See page two for job notes and contact information.

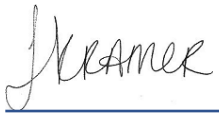
Eurofins Carlsbad

Job Notes

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

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

Authorization



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7/28/2023 11:36:00 AM

Authorized for release by
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Client: Ensolum
Project/Site: Poker Lake Unit 183Q

Laboratory Job ID: 890-4959-1
SDG: 03C1558243

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-4959-1
Project/Site: Poker Lake Unit 183Q 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
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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

Date Collected: 07/18/23 10:00
Date Received: 07/18/23 12:47
Sample Depth: 0 - 4

Lab Sample ID: 890-4959-1
Matrix: Solid

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
OII 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

Date Collected: 07/18/23 10:35
Date Received: 07/18/23 12:47
Sample Depth: 0 - 4

Lab Sample ID: 890-4959-2
Matrix: Solid

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*

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Client Sample Results

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

Job ID: 890-4959-1
SDG: 03C1558243

Client Sample ID: SW11
Date Collected: 07/18/23 10:35
Date Received: 07/18/23 12:47
Sample Depth: 0 - 4

Lab Sample ID: 890-4959-2
Matrix: Solid

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
OII 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	RPD Limit
Benzene			0.100	0.1125		mg/Kg		113	70 - 130	12	35

QC Sample Results

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

Job ID: 890-4959-1
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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

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
OII 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*

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 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58605 — **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 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58062

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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58062

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 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58062

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 — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58062

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 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 58062

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

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

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

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

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

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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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Work Order No: _____

Project Manager:	Ben Belill	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	☑ Routine ☐ Rush
Project Number:	03C1558243	Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Connor Whitman		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TMH009	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.2	
Total Containers:		Corrected Temperature:	1.0	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)
SW10	S	7/18/2023	10:00	0-4'	Comp	1		x	x	x
SW11	S	7/18/2023	10:35	0-4'	Comp	1		x	x	x

CW

890-4959 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident ID: nAPP2315133557

Cost Center: 1137901001

AFE:

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 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		7.18.23 1247	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-1375 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Jessica Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-4959-1
Address: 1211 W Florida Ave	Due Date Requested: 7/24/2023			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: POKER LAKE UNIT 183 Q	Project #: 89000093			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B - NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O - AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8016NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
SW10 (890-4959-1)	7/18/23	10 00 Mountain		Solid			X	X	X	X	X	1	
SW11 (890-4959-2)	7/18/23	10 35 Mountain		Solid			X	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/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions 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*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time.	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

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	

ENSOLUM

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 Belill; Green, Garrett J
Subject: XTO - Sampling Notification (Week of 6/26/23 - 6/30/23)
Date: Wednesday, June 21, 2023 5:35:44 PM
Attachments: image001.png

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of June 26, 2023.

Monday
- PLU 224 / nAPP2310050120
- PLU 183Q / nAPP2315133557

Tuesday
- PLU 183Q / nAPP2315133557
- PLU 224 / nAPP2310050120

Wednesday
- PLU 147 / NRM2004445859

Thursday
- PLU 147 / NRM2004445859

Thank you,

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 and 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**

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

XTO ENERGY

Environmental Technician
melanie.collins@exxonmobil.com
432-556-3756

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 251018

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 251018
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	1/17/2024