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	NAPP2324233432
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 32.19757 Longitude -103.82733
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Poker Lake Unit 315H	Site Type Production Well
Date Release Discovered 08/16/2023	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
P	24	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) 0.01	Volume Recovered (bbls) 0.00
☒ Produced Water	Volume Released (bbls) 7.34	Volume Recovered (bbls) 2.00
	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	Internal corrosion caused a flowline to release fluids to soil. All free fluids were recovered. A third-party contractor has been retained for remediation purposes.	

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2324233432
District RP	
Facility ID	
Application ID	

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: 8/30/2023
email: garrett.green@exxonmobil.com
Telephone: 575-200-0729

OCD Only

Received by: Shelly Wells
Date: 8/30/2023

Location:	Poker Lake Unit 315	
Spill Date:	8/16/2023	
Area 1		
Approximate Area =	2401.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	0.01	bbls
Total Produced Water =	7.34	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	**0.01**	**bbls**
Total Produced Water =	**7.34**	**bbls**
TOTAL VOLUME RECOVERED		
Total Crude Oil =	**0.00**	**bbls**
Total Produced Water =	**2.00**	**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: 259301
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	8/30/2023

Incident ID	NAPP2324233432
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.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2324233432
District RP	
Facility ID	
Application ID	

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: Tommee Lynn Lambert Title: Environmental Manager

Signature: Tommee L Lambert Date: Nov 10 2023

email: tommee.l.lambert@exxonmobil.com Telephone: 307-727-6083

OCD Only

Received by: Shelly Wells Date: 11/13/2023

Incident ID	NAPP2324233432
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: Tommee Lynn Lambert Title: Environmental Manager

Signature: Tommee L Lambert Date: Nov 10 2023

email: tommee.l.lambert@exxonmobil.com Telephone: 307-727-6083

OCD Only

Received by: Shelly Wells Date: 11/13/2023

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

November 10, 2023

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

Re: Closure Request
Poker Lake Unit 315H
Incident Number NAPP2324233432
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 site assessment, excavation, and soil sampling activities performed at the Poker Lake Unit 315H (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil and produced water at the Site. Based on the excavation activities and analytical results from the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2324233432.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 24, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.19757°, -103.82733°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On August 16, 2023, corrosion of a flowline resulted in the release of 0.01 barrels (bbls) of crude oil and 7.34 bbls of produced water onto the adjacent lease road and pasture. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 2 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on August 30, 2023. The release was assigned Incident Number NAPP2324233432.

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 a soil boring permitted by the New Mexico Office of the State Engineer (NMOSE). The soil boring (C-04478) is located approximately 0.6 miles southwest of the Site. The soil boring was drilled to a depth of 110 feet bgs and no groundwater was encountered. The well record is included in Appendix A and all wells used to evaluate depth to groundwater are presented on Figure 1.

The closest continuously flowing or significant watercourse is greater than 300 feet from 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, significant water course, 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 closest depth to groundwater data exceeding a distance of 0.5 miles from the Site the following 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): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On October 18, 2023, site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Three assessment soil samples (SS01 through SS03) were collected within the release extent from a depth of 0.5 feet bgs, to assess surficial soil within the release. On October 25, 2023, Ensolum personnel returned to the Site to oversee delineation activities. Three potholes (PH01 through PH03) were advanced via hand auger at the locations of assessment samples SS01 through SS03, respectively, to assess the vertical extent of impacted soil. The potholes were advanced to depths ranging from 2 feet to 3 feet bgs. Delineation soil samples were collected from each pothole from depths ranging from 1-foot to 3 feet bgs. Soil from the potholes was field screened at 1-foot intervals for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix B. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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 contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for assessment soil samples SS01 through SS03, collected within the release extent, indicated that TPH and/or chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for the delineation samples from potholes PH01 through PH03, collected at depths ranging from 2 feet to 3 feet bgs, indicated all COCs were compliant with the Closure Criteria and successfully delineated the vertical extent of the release.

EXCAVATION SOIL SAMPLING ACTIVITIES

Upon completion of delineation activities, impacted soil was excavated from the release area as indicated by visible staining, laboratory analytical results for the assessment soil samples, and field screening results for the delineation soil samples. Excavation activities were performed using a hydro-

vacuum truck, track-mounted backhoe and transport vehicle. The excavation occurred alongside the lease road and near several active flowlines and utilities.

To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a maximum depth of 3 feet bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS07 were collected from the floor of the excavation from depths ranging from 2 feet to 3 feet bgs. Composite soil samples SW01 through SW06 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 3 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The excavation area measured approximately 1,265 square feet. A total of approximately 120 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

Laboratory analytical results for the excavation soil samples indicated all COCs were compliant with the Closure Criteria. Sidewall soil samples were excavated to the strictest Table I Closure Criteria, successfully defining the edge of the release. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the August 16, 2023, release of crude oil and produced water. Laboratory analytical results for the confirmation samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2324233432.

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

Sincerely,
Ensolum, LLC

Tacoma Morrissey
Senior Geologist, M.S.

Ashley Ager, M.S., P.G.
Principal

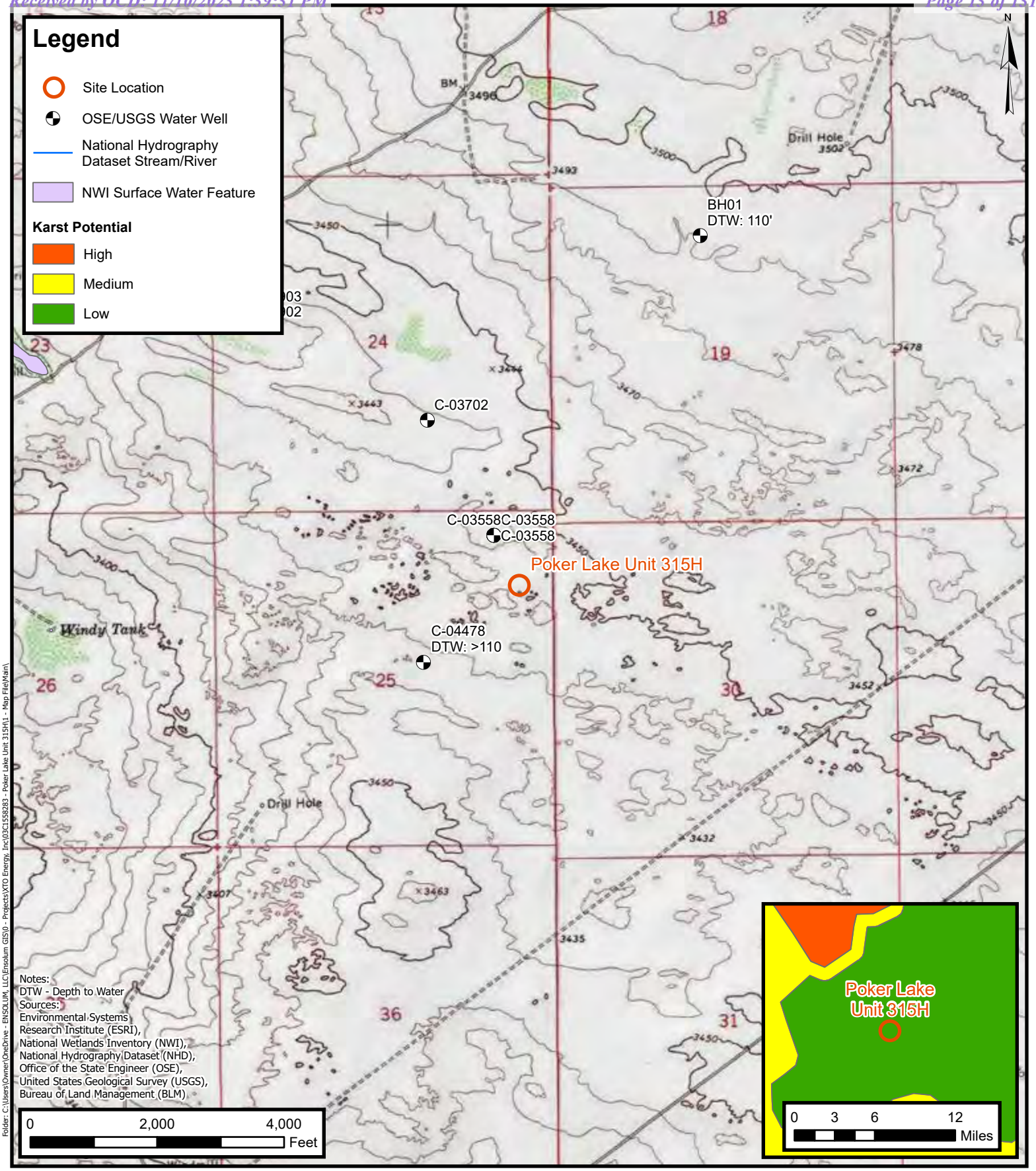
cc: Garrett Green, XTO
Tommee Lambert, XTO
BLM

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	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications

ENSOLUM

FIGURES



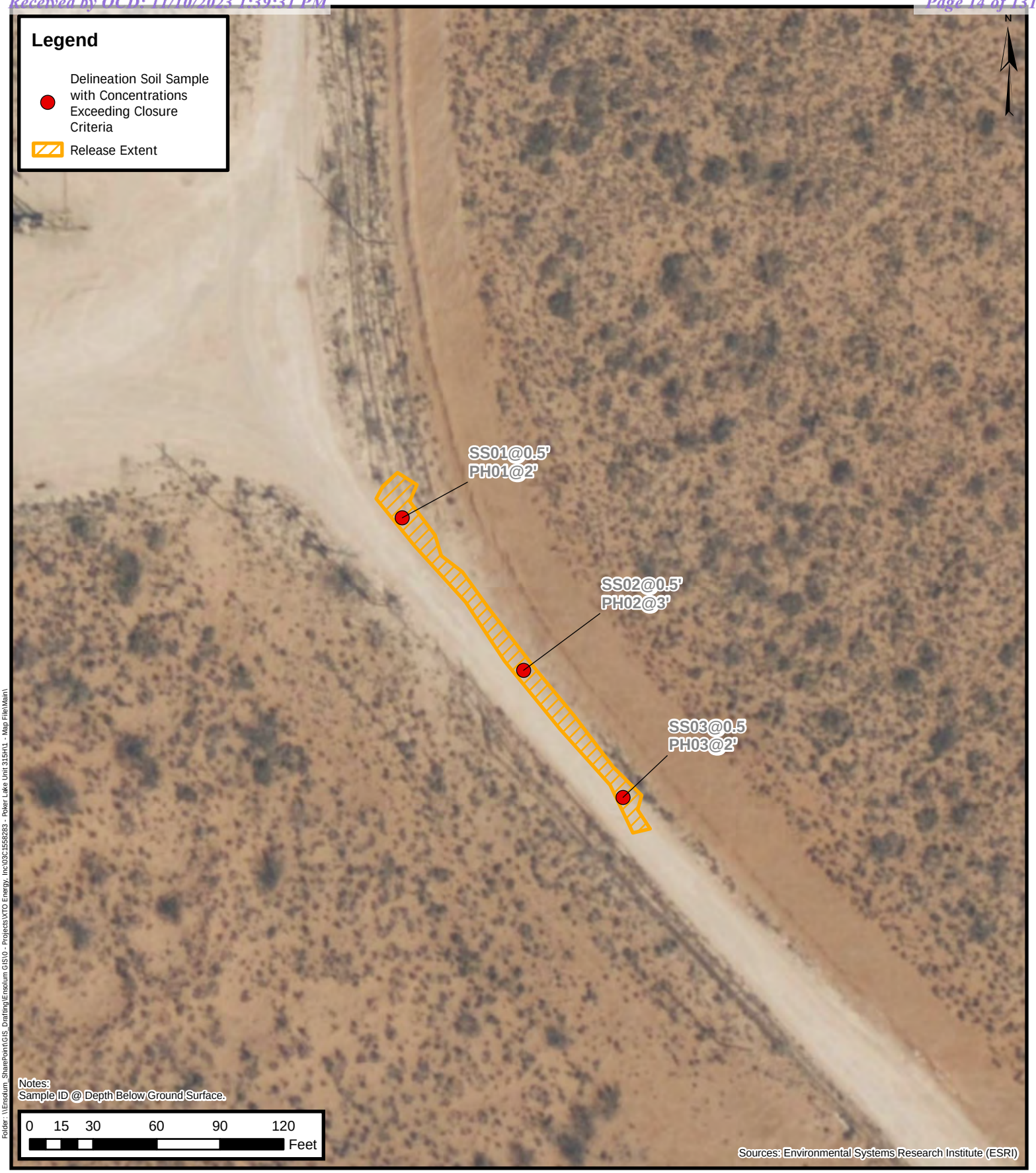
Folder: C:\Users\Owner\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558283 - Poker Lake Unit 315H\1 - Map File\Main\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

XTO Energy, Inc.
Poker Lake Unit 315H
Incident Number: NAPP2324233432
Unit P, Sec 24, T24S, R30E
Eddy County, New Mexico

FIGURE 1



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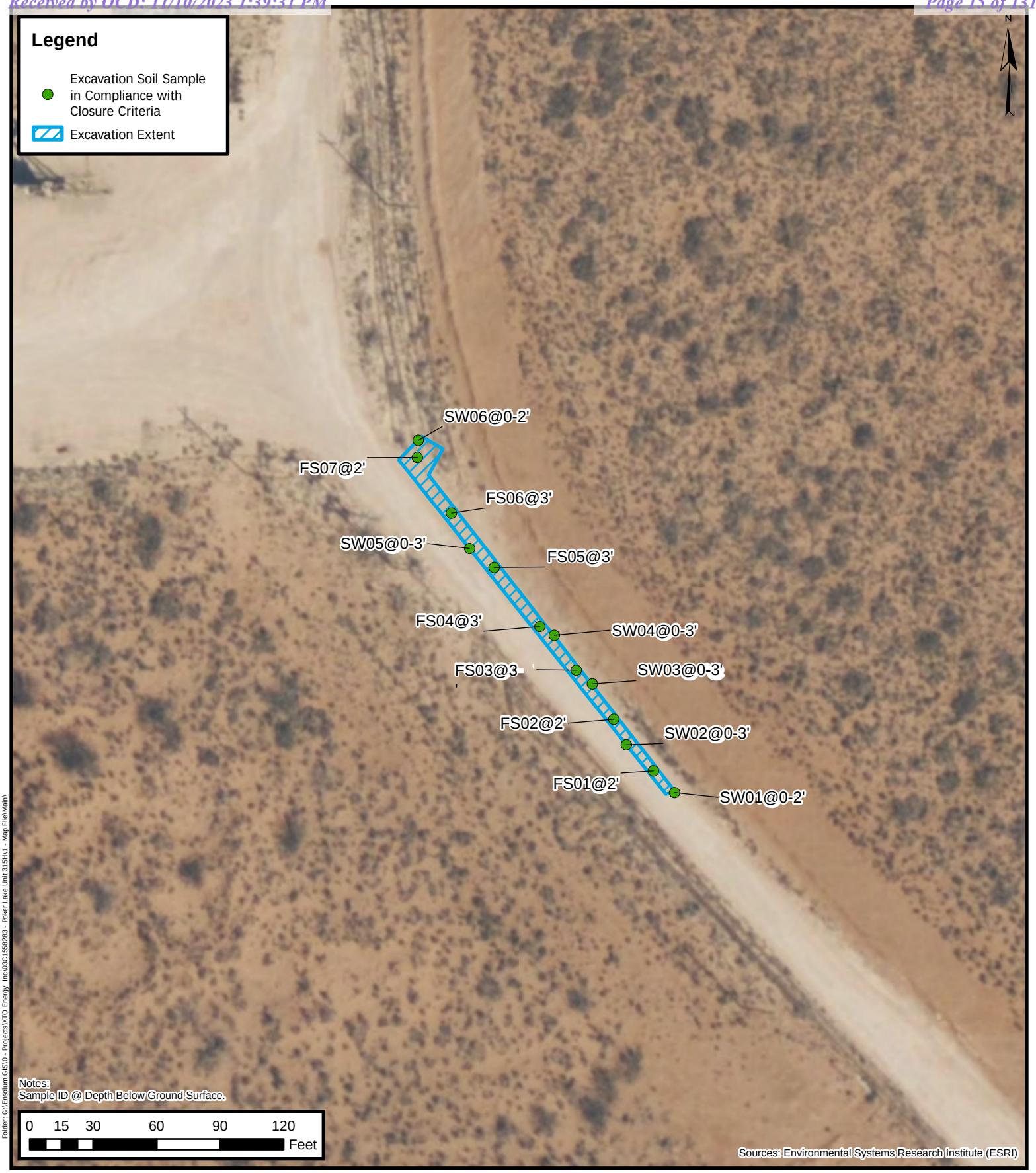
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Delineation Soil Sample Locations

XTO Energy, Inc.
Poker Lake Unit 315H
Incident Number: NAPP2324233432
Unit P, Sec 24, T24S, R30E
Eddy County, New Mexico

FIGURE 2



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Excavation Soil Sample Locations

XTO Energy, Inc.
Poker Lake Unit 315H
Incident Number: NAPP2324233432
Unit P, Sec 24, 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 315H
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	NE	100	600
Delineation Soil Samples										
~~SS01*~~	~~10/18/2023~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<50.5~~	~~4,660~~	~~<50.5~~	~~4,660~~	~~**4,660**~~	~~<25.0~~
~~PH01*~~	~~10/25/2023~~	~~2~~	~~<0.00200~~	~~<0.00401~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**<50.0**~~	~~230~~
~~SS02*~~	~~10/18/2023~~	~~0.5~~	~~<0.00198~~	~~0.0520~~	~~<50.0~~	~~1,720~~	~~<50.0~~	~~1,720~~	~~**1,720**~~	~~**6,640**~~
~~PH02*~~	~~10/25/2023~~	~~3~~	~~<0.00199~~	~~<0.00398~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~132~~
~~SS03*~~	~~10/18/2023~~	~~0.5~~	~~<0.00200~~	~~0.0742~~	~~<249~~	~~10,100~~	~~<249~~	~~10,100~~	~~**10,100**~~	~~**8,470**~~
~~PH03*~~	~~10/25/2023~~	~~2~~	~~<0.00200~~	~~<0.00399~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~53.1~~
Confirmation Soil Samples										
FS01*	10/25/2023	2	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	90.7
FS02*	10/25/2023	2	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6	<49.6	85.0
FS03*	10/25/2023	3	<0.00198	<0.00396	<49.6	<49.6	<49.6	<49.6	<49.6	236
FS04*	10/25/2023	3	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	182
FS05*	10/25/2023	3	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	305
FS06*	10/25/2023	3	<0.00199	<0.00398	<49.6	<49.9	<49.9	<49.9	<49.9	543
FS07*	10/31/2023	2	<0.00198	<0.00396	<49.8	65.8	<49.8	65.8	65.8	183
SW01*	10/25/2023	0 - 2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	87.3
SW02*	10/25/2023	0 - 3	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	87.4
SW03*	10/25/2023	0 - 3	<0.00200	<0.00401	<50.4	<50.4	<50.4	<50.4	<50.4	133
SW04*	10/26/2023	0 - 3	<0.00198	<0.00397	<50.3	<50.3	<50.3	<50.3	<50.3	380
SW05*	10/31/2023	0 - 3	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	82.7
SW06*	10/31/2023	0 - 2	<0.00200	<0.00401	<50.2	<50.2	<50.2	<50.2	<50.2	172

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

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

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APPENDIX A

Referenced Well Records

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2020 OCT 22 PM 1:03

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (BH-01)	n/a	C-4478

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°	11'	22.57"	N
LONGITUDE	-103°	49'	56.14"	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

SW SE NE Sec. 25 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)
10/07/2020	10/07/2020	temporary well material	110	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	110	±8.5	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-4478	POD NO. 1	TRN NO. 678382	
LOCATION 24S.30E.25 23.3		WELL TAG ID NO. NA	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	3	3	Sand, fine-grained, poorly-graded , Red-Brown	Y ✓ N	
3	5	2	Gravel, 20-30 mil, well graded, little clay	Y ✓ N	
5	13	8	Caliche with some gravel (5-20 mil.) Tan/ Brown	Y ✓ N	
13	24	9	Sand, fine-grained, well-graded some silt, Tan/ Red	Y ✓ N	
24	34	10	Sand, Medium-grained, well-graded some silt, Tan/ Red	Y ✓ N	
34	44	10	Sand, Large-grained, well-graded some silt, Dark Brown	Y ✓ N	
44	110	66	Sand, fine-grained, well-graded, some clay, moist, caliche fragments Red/Brown	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	
				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 LTE on-site geologist.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge

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 — 10/26/2020

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4478	POD NO. 1	TRN NO. 678382	
LOCATION 24S-30E-25 2-3-3		WELL TAG ID NO. NA	PAGE 2 OF 2

2020-10-26_C-4478POD1_OSE_Well Record and Log-89-forsign

Final Audit Report 2020-10-27

Created:	2020-10-27
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAESGKFRG9AU3NcytvOCSRntC1Y-zTs43Y

"2020-10-26_C-4478POD1_OSE_Well Record and Log-89-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com)
2020-10-27 - 3:14:03 PM GMT- IP address: 69.21.248.123

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2020-10-27 - 3:14:17 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2020-10-27 - 3:21:12 PM GMT- IP address: 74.50.153.115

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2020-10-27 - 3:22:09 PM GMT - Time Source: server- IP address: 74.50.153.115

Agreement completed.
2020-10-27 - 3:22:09 PM GMT

Adobe Sign

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: SS01/PH01	Date: 10/18/23 & 10/25/23
	Site Name: Poker Lake Unit 315H	
	Incident Number: nAPP2324233432	
	Job Number: 03C1558283	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: M. O'Dell	Method: Hand Auger
Coordinates: 32.197480, -103.827251	Hole Diameter: 3.5"	Total Depth: 2'

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 calculations made with a +40% correcction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	3,758	16.0	Y	SS01	0.5		SW	Sand. Mixed with caliche. Very fine grained, well graded
D	274	0.0	N		1	1	SW	Sand. Reddish brown, very fine to fine grained, well graded, dry.
D	274	0.0	N	PH01	2	2		SAA

Total Depth at 2' bgs.

ENSOLUM

	Sample Name: SS02/PH02	Date: 10/18/23 & 10/25/23
	Site Name: Poker Lake Unit 315H	
	Incident Number: nAPP2324233432	
	Job Number: 03C1558283	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: M. O'Dell	Method: Hand Auger
Coordinates: 32.197340, -103.827103	Hole Diameter: 3.5"	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 calculations made with a +40% correcction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	11,830	18.3	Y	SS02	0.5		SW	Sand. Mixed with caliche. Very fine grained, well graded
D	1,624	0.0	N		1	1	SW	Sand. Reddish brown, very fine to fine grained, well graded, dry.
D	862.4	0.0	N		2	2		SAA
D	168	0	N	PH02	3	3		SAA

Total Depth @ 3' bgs.

ENSOLUM

	Sample Name: SS03/PH03	Date: 10/18/23 & 10/25/23
	Site Name: Poker Lake Unit 315H	
	Incident Number: nAPP2324233432	
	Job Number: 03C1558283	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: M. O'Dell	Method: Hand Auger
Coordinates: 32.197209, -103.827006	Hole Diameter: 3.5"	Total Depth: 2'

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 calculations made with a +40% correcction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	12,900	52.1	Y	SS03	0.5		SW	Sand. Mixed with caliche. Very fine grained, well graded
D	3,853	0.0	N		1	1	SW	Sand. Reddish brown, very fine to fine grained, well graded, dry.
D	<168	0.0	N	PH03	2	2		SAA

Total Depth at 2' bgs.

ENSOLUM

APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
XTO Energy, Inc
Poker Lake Unit 315H
Incident Number: nAPP2324233432

Photograph 1 Date: 10/18/2023
Description: Site Assessment
View: North

Photograph 2 Date: 10/27/2023
Description: Excavation activities
View: South

Photograph 3 Date: 10/31/2023
Description: Final Excavation
View: South

Photograph 4 Date: 10/31/2023
Description: Final Excavation
View: North

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 11/1/2023 9:59:03 AM

JOB DESCRIPTION

Poker Lake Unit 315H
SDG NUMBER 03C1558283

JOB NUMBER

880-34948-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

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
11/1/2023 9:59:03 AM

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

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Laboratory Job ID: 880-34948-1
SDG: 03C1558283

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Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

Qualifiers

GC VOA

Qualifier	Qualifier Description
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, 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 315H

Job ID: 880-34948-1
SDG: 03C1558283

Job ID: 880-34948-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-34948-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/27/2023 12:18 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: FS03 (880-34948-6) and (880-35012-A-1-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-65815 and analytical batch 880-65758 was outside the upper control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-65815 and analytical batch 880-65758 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 samples were outside control limits: (CCV 880-65756/2), (880-34971-A-3-D MS) and (880-34990-A-1-A MB). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-65790 and analytical batch 880-65756 was outside the control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-65756 recovered above the upper control limit for o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW02 (880-34948-8) and SW03 (880-34948-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65727 and analytical batch 880-65673 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-34847-A-16-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-65727 and analytical batch 880-65673 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.

Case Narrative

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

Job ID: 880-34948-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65731 and analytical batch 880-65672 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-65672/8). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65754 and analytical batch 880-65746 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-65746/20), (CCV 880-65746/31), (880-34990-A-13-A MB) and (880-34990-A-13-B MDLV). 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 315H

Job ID: 880-34948-1
SDG: 03C1558283

Client Sample ID: PH02

Lab Sample ID: 880-34948-1
Matrix: Solid
Date Collected: 10/25/23 09:40
Date Received: 10/27/23 12:18
Sample Depth: 3'

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		10/30/23 13:21	10/31/23 05:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/30/23 13:21	10/31/23 05:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/30/23 13:21	10/31/23 05:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/30/23 13:21	10/31/23 05:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/30/23 13:21	10/31/23 05:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/30/23 13:21	10/31/23 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*10/30/23 13:21*	*10/31/23 05:04*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*10/30/23 13:21*	*10/31/23 05:04*	*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			10/31/23 05:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/27/23 23:36	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	<49.7	U	49.7		mg/Kg		10/27/23 14:58	10/27/23 23:36	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/27/23 14:58	10/27/23 23:36	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/27/23 14:58	10/27/23 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*10/27/23 14:58*	*10/27/23 23:36*	*1*
o-Terphenyl	*117*		*70 - 130*	*10/27/23 14:58*	*10/27/23 23:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**132**		5.00		mg/Kg			11/01/23 03:19	1

Client Sample ID: PH03

Lab Sample ID: 880-34948-2
Matrix: Solid
Date Collected: 10/25/23 10:10
Date Received: 10/27/23 12:18
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		10/30/23 13:21	10/31/23 05:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/30/23 13:21	10/31/23 05:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/30/23 13:21	10/31/23 05:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/30/23 13:21	10/31/23 05:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/30/23 13:21	10/31/23 05:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/30/23 13:21	10/31/23 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*10/30/23 13:21*	*10/31/23 05:25*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

Client Sample ID: PH03

Lab Sample ID: 880-34948-2
Matrix: Solid
Date Collected: 10/25/23 10:10
Date Received: 10/27/23 12:18
Sample Depth: 2'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*10/30/23 13:21*	*10/31/23 05:25*	*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			10/31/23 05:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			10/27/23 23:57	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	<49.6	U	49.6	mg/Kg		10/27/23 14:58	10/27/23 23:57	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		10/27/23 14:58	10/27/23 23:57	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		10/27/23 14:58	10/27/23 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*10/27/23 14:58*	*10/27/23 23:57*	*1*
o-Terphenyl	*114*		*70 - 130*	*10/27/23 14:58*	*10/27/23 23:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.1**		5.05	mg/Kg			11/01/23 03:39	1

Client Sample ID: FS01

Lab Sample ID: 880-34948-3
Matrix: Solid
Date Collected: 10/25/23 11:10
Date Received: 10/27/23 12:18
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		10/30/23 13:21	10/31/23 05:45	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/30/23 13:21	10/31/23 05:45	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/30/23 13:21	10/31/23 05:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/30/23 13:21	10/31/23 05:45	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/30/23 13:21	10/31/23 05:45	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/30/23 13:21	10/31/23 05:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/30/23 13:21*	*10/31/23 05:45*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*10/30/23 13:21*	*10/31/23 05:45*	*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			10/31/23 05:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			10/28/23 00:18	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

Client Sample ID: FS01

Lab Sample ID: 880-34948-3
Matrix: Solid
Date Collected: 10/25/23 11:10
Date Received: 10/27/23 12:18
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	<50.1	U	50.1		mg/Kg		10/27/23 14:58	10/28/23 00:18	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/27/23 14:58	10/28/23 00:18	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/27/23 14:58	10/28/23 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*10/27/23 14:58*	*10/28/23 00:18*	*1*
o-Terphenyl	*108*		*70 - 130*	*10/27/23 14:58*	*10/28/23 00:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.7**		5.05		mg/Kg			11/01/23 03:45	1

Client Sample ID: FS02

Lab Sample ID: 880-34948-4
Matrix: Solid
Date Collected: 10/25/23 11:30
Date Received: 10/27/23 12:18
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		10/30/23 13:21	10/31/23 06:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/30/23 13:21	10/31/23 06:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/30/23 13:21	10/31/23 06:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/30/23 13:21	10/31/23 06:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/30/23 13:21	10/31/23 06:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/30/23 13:21	10/31/23 06:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*10/30/23 13:21*	*10/31/23 06:06*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*10/30/23 13:21*	*10/31/23 06:06*	*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			10/31/23 06:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/28/23 00:18	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	<49.6	U	49.6		mg/Kg		10/27/23 14:43	10/28/23 00:18	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		10/27/23 14:43	10/28/23 00:18	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/27/23 14:43	10/28/23 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*10/27/23 14:43*	*10/28/23 00:18*	*1*
o-Terphenyl	*111*		*70 - 130*	*10/27/23 14:43*	*10/28/23 00:18*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

Client Sample ID: FS02

Lab Sample ID: 880-34948-4
Matrix: Solid
Date Collected: 10/25/23 11:30
Date Received: 10/27/23 12:18
Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.0		4.96		mg/Kg			11/01/23 03:52	1

Client Sample ID: SW01

Lab Sample ID: 880-34948-5
Matrix: Solid
Date Collected: 10/25/23 11:45
Date Received: 10/27/23 12:18
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		10/30/23 13:21	10/31/23 06:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/30/23 13:21	10/31/23 06:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/30/23 13:21	10/31/23 06:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/30/23 13:21	10/31/23 06:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/30/23 13:21	10/31/23 06:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/30/23 13:21	10/31/23 06:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*10/30/23 13:21*	*10/31/23 06:26*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*10/30/23 13:21*	*10/31/23 06:26*	*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			10/31/23 06:26	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			10/30/23 13:28	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		10/30/23 08:22	10/30/23 13:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/30/23 08:22	10/30/23 13:28	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/30/23 08:22	10/30/23 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*10/30/23 08:22*	*10/30/23 13:28*	*1*
o-Terphenyl	*116*		*70 - 130*	*10/30/23 08:22*	*10/30/23 13:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.3		4.99		mg/Kg			11/01/23 03:59	1

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

Client Sample ID: FS03

Lab Sample ID: 880-34948-6
Matrix: Solid
Date Collected: 10/25/23 12:10
Date Received: 10/27/23 12:18
Sample Depth: 3'

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		10/30/23 13:21	10/31/23 06:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/30/23 13:21	10/31/23 06:47	1
Ethylbenzene	**0.00349**		0.00198		mg/Kg		10/30/23 13:21	10/31/23 06:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/30/23 13:21	10/31/23 06:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/30/23 13:21	10/31/23 06:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/30/23 13:21	10/31/23 06:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*316*	*S1+*	*70 - 130*	*10/30/23 13:21*	*10/31/23 06:47*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*10/30/23 13:21*	*10/31/23 06:47*	*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			10/31/23 06:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/30/23 13:50	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	<49.6	U	49.6		mg/Kg		10/30/23 08:22	10/30/23 13:50	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		10/30/23 08:22	10/30/23 13:50	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/30/23 08:22	10/30/23 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*10/30/23 08:22*	*10/30/23 13:50*	*1*
o-Terphenyl	*111*		*70 - 130*	*10/30/23 08:22*	*10/30/23 13:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**236**		4.95		mg/Kg			11/01/23 04:18	1

Client Sample ID: FS04

Lab Sample ID: 880-34948-7
Matrix: Solid
Date Collected: 10/25/23 12:20
Date Received: 10/27/23 12:18
Sample Depth: 3'

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		10/30/23 13:21	10/31/23 07:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/30/23 13:21	10/31/23 07:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/30/23 13:21	10/31/23 07:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/30/23 13:21	10/31/23 07:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/30/23 13:21	10/31/23 07:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/30/23 13:21	10/31/23 07:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*10/30/23 13:21*	*10/31/23 07:07*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

Client Sample ID: FS04

Lab Sample ID: 880-34948-7
Matrix: Solid
Date Collected: 10/25/23 12:20
Date Received: 10/27/23 12:18
Sample Depth: 3'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*10/30/23 13:21*	*10/31/23 07:07*	*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			10/31/23 07:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			10/30/23 14:12	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	<49.6	U	49.6	mg/Kg		10/30/23 08:22	10/30/23 14:12	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		10/30/23 08:22	10/30/23 14:12	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		10/30/23 08:22	10/30/23 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*10/30/23 08:22*	*10/30/23 14:12*	*1*
o-Terphenyl	*123*		*70 - 130*	*10/30/23 08:22*	*10/30/23 14:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**182**		5.01	mg/Kg			11/01/23 04:25	1

Client Sample ID: SW02

Lab Sample ID: 880-34948-8
Matrix: Solid
Date Collected: 10/25/23 12:30
Date Received: 10/27/23 12:18
Sample Depth: 0-3'

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		10/30/23 11:05	10/30/23 21:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/30/23 11:05	10/30/23 21:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/30/23 11:05	10/30/23 21:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/30/23 11:05	10/30/23 21:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/30/23 11:05	10/30/23 21:58	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/30/23 11:05	10/30/23 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*10/30/23 11:05*	*10/30/23 21:58*	*1*
1,4-Difluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*10/30/23 11:05*	*10/30/23 21:58*	*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			10/30/23 21:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			10/30/23 14:34	1

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

Client Sample ID: SW02

Date Collected: 10/25/23 12:30
Date Received: 10/27/23 12:18
Sample Depth: 0-3'

Lab Sample ID: 880-34948-8
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	<50.3	U	50.3		mg/Kg		10/30/23 08:22	10/30/23 14:34	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		10/30/23 08:22	10/30/23 14:34	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/30/23 08:22	10/30/23 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*10/30/23 08:22*	*10/30/23 14:34*	*1*
o-Terphenyl	*113*		*70 - 130*	*10/30/23 08:22*	*10/30/23 14:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.4**		5.02		mg/Kg			11/01/23 04:32	1

Client Sample ID: SW03

Date Collected: 10/25/23 12:40
Date Received: 10/27/23 12:18
Sample Depth: 0-3'

Lab Sample ID: 880-34948-9
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		10/30/23 11:05	10/30/23 22:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/30/23 11:05	10/30/23 22:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/30/23 11:05	10/30/23 22:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/30/23 11:05	10/30/23 22:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/30/23 11:05	10/30/23 22:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/30/23 11:05	10/30/23 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*10/30/23 11:05*	*10/30/23 22:24*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*10/30/23 11:05*	*10/30/23 22:24*	*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			10/30/23 22:24	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			10/30/23 14:56	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		10/30/23 08:22	10/30/23 14:56	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		10/30/23 08:22	10/30/23 14:56	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		10/30/23 08:22	10/30/23 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*10/30/23 08:22*	*10/30/23 14:56*	*1*
o-Terphenyl	*108*		*70 - 130*	*10/30/23 08:22*	*10/30/23 14:56*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

Client Sample ID: SW03

Date Collected: 10/25/23 12:40
Date Received: 10/27/23 12:18
Sample Depth: 0-3'

Lab Sample ID: 880-34948-9

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		5.03		mg/Kg			11/01/23 04:38	1

Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

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)
880-34948-1	PH02	81	114
880-34948-2	PH03	92	113
880-34948-3	FS01	98	106
880-34948-4	FS02	101	114
880-34948-5	SW01	103	118
880-34948-6	FS03	316 S1+	125
880-34948-7	FS04	96	109
880-34948-8	SW02	130	132 S1+
880-34948-9	SW03	131 S1+	116
LCS 880-65790/1-A	Lab Control Sample	94	74
LCS 880-65815/1-A	Lab Control Sample	98	98
LCSD 880-65790/2-A	Lab Control Sample Dup	94	80
LCSD 880-65815/2-A	Lab Control Sample Dup	100	104
MB 880-65762/5-A	Method Blank	108	123
MB 880-65790/5-A	Method Blank	60 S1-	84
MB 880-65815/5-A	Method Blank	128	182 S1+

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)
880-34948-1	PH02	106	117
880-34948-2	PH03	103	114
880-34948-3	FS01	96	108
880-34948-4	FS02	117	111
880-34948-5	SW01	129	116
880-34948-6	FS03	120	111
880-34948-7	FS04	130	123
880-34948-8	SW02	122	113
880-34948-9	SW03	112	108
LCS 880-65727/2-A	Lab Control Sample	103	117
LCS 880-65731/2-A	Lab Control Sample	89	111
LCS 880-65754/2-A	Lab Control Sample	100	118
LCSD 880-65727/3-A	Lab Control Sample Dup	116	122
LCSD 880-65731/3-A	Lab Control Sample Dup	98	109
LCSD 880-65754/3-A	Lab Control Sample Dup	122	127
MB 880-65727/1-A	Method Blank	211 S1+	198 S1+
MB 880-65731/1-A	Method Blank	184 S1+	210 S1+
MB 880-65754/1-A	Method Blank	233 S1+	230 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65762/5-A
Matrix: Solid
Analysis Batch: 65758

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65762

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/30/23 09:13	10/30/23 12:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/30/23 09:13	10/30/23 12:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/30/23 09:13	10/30/23 12:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/30/23 09:13	10/30/23 12:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/30/23 09:13	10/30/23 12:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/30/23 09:13	10/30/23 12:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*10/30/23 09:13*	*10/30/23 12:05*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*10/30/23 09:13*	*10/30/23 12:05*	*1*

Lab Sample ID: MB 880-65790/5-A
Matrix: Solid
Analysis Batch: 65756

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65790

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/30/23 09:00	10/30/23 12:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/30/23 09:00	10/30/23 12:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/30/23 09:00	10/30/23 12:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/30/23 09:00	10/30/23 12:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/30/23 09:00	10/30/23 12:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/30/23 09:00	10/30/23 12:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*10/30/23 09:00*	*10/30/23 12:19*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*10/30/23 09:00*	*10/30/23 12:19*	*1*

Lab Sample ID: LCS 880-65790/1-A
Matrix: Solid
Analysis Batch: 65756

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65790

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09819		mg/Kg		98	70 - 130		
Toluene			0.100	0.1128		mg/Kg		113	70 - 130		
Ethylbenzene			0.100	0.1149		mg/Kg		115	70 - 130		
m-Xylene & p-Xylene			0.200	0.2233		mg/Kg		112	70 - 130		
o-Xylene			0.100	0.1161		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*

Lab Sample ID: LCSD 880-65790/2-A
Matrix: Solid
Analysis Batch: 65756

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65790

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1062		mg/Kg		106	70 - 130	8	35

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

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

Lab Sample ID: LCSD 880-65790/2-A
Matrix: Solid
Analysis Batch: 65756

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65790

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1155		mg/Kg		115	70 - 130	2	35
Ethylbenzene			0.100	0.1090		mg/Kg		109	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2127		mg/Kg		106	70 - 130	5	35
o-Xylene			0.100	0.1125		mg/Kg		113	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

Lab Sample ID: MB 880-65815/5-A
Matrix: Solid
Analysis Batch: 65758

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65815

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/30/23 13:21	10/30/23 23:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/30/23 13:21	10/30/23 23:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/30/23 13:21	10/30/23 23:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/30/23 13:21	10/30/23 23:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/30/23 13:21	10/30/23 23:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/30/23 13:21	10/30/23 23:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*10/30/23 13:21*	*10/30/23 23:42*	*1*
1,4-Difluorobenzene (Surr)	*182*	*S1+*	*70 - 130*	*10/30/23 13:21*	*10/30/23 23:42*	*1*

Lab Sample ID: LCS 880-65815/1-A
Matrix: Solid
Analysis Batch: 65758

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65815

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.1028		mg/Kg		103	70 - 130
Toluene			0.100	0.08951		mg/Kg		90	70 - 130
Ethylbenzene			0.100	0.09437		mg/Kg		94	70 - 130
m-Xylene & p-Xylene			0.200	0.1770		mg/Kg		89	70 - 130
o-Xylene			0.100	0.07884		mg/Kg		79	70 - 130

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

Lab Sample ID: LCSD 880-65815/2-A
Matrix: Solid
Analysis Batch: 65758

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65815

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1182		mg/Kg		118	70 - 130	14	35
Toluene			0.100	0.09326		mg/Kg		93	70 - 130	4	35
Ethylbenzene			0.100	0.09122		mg/Kg		91	70 - 130	3	35

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

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

Lab Sample ID: LCSD 880-65815/2-A
Matrix: Solid
Analysis Batch: 65758

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65815

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene			0.200	0.1839		mg/Kg		92	70 - 130	4	35
o-Xylene			0.100	0.08987		mg/Kg		90	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

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

Lab Sample ID: MB 880-65727/1-A
Matrix: Solid
Analysis Batch: 65673

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65727

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		10/27/23 07:43	10/27/23 08:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/23 07:43	10/27/23 08:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/23 07:43	10/27/23 08:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*211*	*S1+*	*70 - 130*	*10/27/23 07:43*	*10/27/23 08:29*	*1*
o-Terphenyl	*198*	*S1+*	*70 - 130*	*10/27/23 07:43*	*10/27/23 08:29*	*1*

Lab Sample ID: LCS 880-65727/2-A
Matrix: Solid
Analysis Batch: 65673

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65727

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1041		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)			1000	952.2		mg/Kg		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Lab Sample ID: LCSD 880-65727/3-A
Matrix: Solid
Analysis Batch: 65673

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65727

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1065		mg/Kg		106	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1022		mg/Kg		102	70 - 130	7	20

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

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

Lab Sample ID: LCSD 880-65727/3-A
Matrix: Solid
Analysis Batch: 65673

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65727

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: MB 880-65731/1-A
Matrix: Solid
Analysis Batch: 65672

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65731

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		10/27/23 07:58	10/27/23 08:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/23 07:58	10/27/23 08:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/23 07:58	10/27/23 08:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	184	S1+	70 - 130	10/27/23 07:58	10/27/23 08:29	1
o-Terphenyl	210	S1+	70 - 130	10/27/23 07:58	10/27/23 08:29	1

Lab Sample ID: LCS 880-65731/2-A
Matrix: Solid
Analysis Batch: 65672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65731

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	912.5		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	927.9		mg/Kg		93	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: LCSD 880-65731/3-A
Matrix: Solid
Analysis Batch: 65672

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65731

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	936.7		mg/Kg		94	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	966.0		mg/Kg		97	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	109		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

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

Lab Sample ID: MB 880-65754/1-A
Matrix: Solid
Analysis Batch: 65746

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65754

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		10/30/23 07:22	10/30/23 08:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/30/23 07:22	10/30/23 08:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/30/23 07:22	10/30/23 08:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*233*	*S1+*	*70 - 130*	*10/30/23 07:22*	*10/30/23 08:04*	*1*
o-Terphenyl	*230*	*S1+*	*70 - 130*	*10/30/23 07:22*	*10/30/23 08:04*	*1*

Lab Sample ID: LCS 880-65754/2-A
Matrix: Solid
Analysis Batch: 65746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65754

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	880.3		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	929.4		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*118*		*70 - 130*

Lab Sample ID: LCSD 880-65754/3-A
Matrix: Solid
Analysis Batch: 65746

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65754

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1040		mg/Kg		104	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			1000	1065		mg/Kg		106	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*122*		*70 - 130*
o-Terphenyl	*127*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65726/1-A
Matrix: Solid
Analysis Batch: 65935

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			11/01/23 02:59	1

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-65726/2-A
Matrix: Solid
Analysis Batch: 65935

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.7		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-65726/3-A
Matrix: Solid
Analysis Batch: 65935

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	248.3		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-34948-1 MS
Matrix: Solid
Analysis Batch: 65935

Client Sample ID: PH02
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	132		250	375.3		mg/Kg		97	90 - 110		

Lab Sample ID: 880-34948-1 MSD
Matrix: Solid
Analysis Batch: 65935

Client Sample ID: PH02
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	132		250	378.1		mg/Kg		98	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

GC VOA

Analysis Batch: 65756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-8	SW02	Total/NA	Solid	8021B	65790
880-34948-9	SW03	Total/NA	Solid	8021B	65790
MB 880-65790/5-A	Method Blank	Total/NA	Solid	8021B	65790
LCS 880-65790/1-A	Lab Control Sample	Total/NA	Solid	8021B	65790
LCSD 880-65790/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65790

Analysis Batch: 65758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-1	PH02	Total/NA	Solid	8021B	65815
880-34948-2	PH03	Total/NA	Solid	8021B	65815
880-34948-3	FS01	Total/NA	Solid	8021B	65815
880-34948-4	FS02	Total/NA	Solid	8021B	65815
880-34948-5	SW01	Total/NA	Solid	8021B	65815
880-34948-6	FS03	Total/NA	Solid	8021B	65815
880-34948-7	FS04	Total/NA	Solid	8021B	65815
MB 880-65762/5-A	Method Blank	Total/NA	Solid	8021B	65762
MB 880-65815/5-A	Method Blank	Total/NA	Solid	8021B	65815
LCS 880-65815/1-A	Lab Control Sample	Total/NA	Solid	8021B	65815
LCSD 880-65815/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65815

Prep Batch: 65762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-65762/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 65790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-8	SW02	Total/NA	Solid	5035	
880-34948-9	SW03	Total/NA	Solid	5035	
MB 880-65790/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65790/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65790/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 65815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-1	PH02	Total/NA	Solid	5035	
880-34948-2	PH03	Total/NA	Solid	5035	
880-34948-3	FS01	Total/NA	Solid	5035	
880-34948-4	FS02	Total/NA	Solid	5035	
880-34948-5	SW01	Total/NA	Solid	5035	
880-34948-6	FS03	Total/NA	Solid	5035	
880-34948-7	FS04	Total/NA	Solid	5035	
MB 880-65815/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65815/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65815/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 65920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-1	PH02	Total/NA	Solid	Total BTEX	
880-34948-2	PH03	Total/NA	Solid	Total BTEX	
880-34948-3	FS01	Total/NA	Solid	Total BTEX	
880-34948-4	FS02	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

GC VOA (Continued)

Analysis Batch: 65920 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-5	SW01	Total/NA	Solid	Total BTEX	
880-34948-6	FS03	Total/NA	Solid	Total BTEX	
880-34948-7	FS04	Total/NA	Solid	Total BTEX	
880-34948-8	SW02	Total/NA	Solid	Total BTEX	
880-34948-9	SW03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 65672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-1	PH02	Total/NA	Solid	8015B NM	65731
880-34948-2	PH03	Total/NA	Solid	8015B NM	65731
880-34948-3	FS01	Total/NA	Solid	8015B NM	65731
MB 880-65731/1-A	Method Blank	Total/NA	Solid	8015B NM	65731
LCS 880-65731/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65731
LCSD 880-65731/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65731

Analysis Batch: 65673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-4	FS02	Total/NA	Solid	8015B NM	65727
MB 880-65727/1-A	Method Blank	Total/NA	Solid	8015B NM	65727
LCS 880-65727/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65727
LCSD 880-65727/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65727

Prep Batch: 65727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-4	FS02	Total/NA	Solid	8015NM Prep	
MB 880-65727/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65727/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65727/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 65731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-1	PH02	Total/NA	Solid	8015NM Prep	
880-34948-2	PH03	Total/NA	Solid	8015NM Prep	
880-34948-3	FS01	Total/NA	Solid	8015NM Prep	
MB 880-65731/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65731/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65731/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 65746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-5	SW01	Total/NA	Solid	8015B NM	65754
880-34948-6	FS03	Total/NA	Solid	8015B NM	65754
880-34948-7	FS04	Total/NA	Solid	8015B NM	65754
880-34948-8	SW02	Total/NA	Solid	8015B NM	65754
880-34948-9	SW03	Total/NA	Solid	8015B NM	65754
MB 880-65754/1-A	Method Blank	Total/NA	Solid	8015B NM	65754
LCS 880-65754/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65754
LCSD 880-65754/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65754

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

GC Semi VOA

Prep Batch: 65754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-5	SW01	Total/NA	Solid	8015NM Prep	
880-34948-6	FS03	Total/NA	Solid	8015NM Prep	
880-34948-7	FS04	Total/NA	Solid	8015NM Prep	
880-34948-8	SW02	Total/NA	Solid	8015NM Prep	
880-34948-9	SW03	Total/NA	Solid	8015NM Prep	
MB 880-65754/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65754/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65754/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 65778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-1	PH02	Total/NA	Solid	8015 NM	
880-34948-2	PH03	Total/NA	Solid	8015 NM	
880-34948-3	FS01	Total/NA	Solid	8015 NM	
880-34948-4	FS02	Total/NA	Solid	8015 NM	
880-34948-5	SW01	Total/NA	Solid	8015 NM	
880-34948-6	FS03	Total/NA	Solid	8015 NM	
880-34948-7	FS04	Total/NA	Solid	8015 NM	
880-34948-8	SW02	Total/NA	Solid	8015 NM	
880-34948-9	SW03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 65726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-1	PH02	Soluble	Solid	DI Leach	
880-34948-2	PH03	Soluble	Solid	DI Leach	
880-34948-3	FS01	Soluble	Solid	DI Leach	
880-34948-4	FS02	Soluble	Solid	DI Leach	
880-34948-5	SW01	Soluble	Solid	DI Leach	
880-34948-6	FS03	Soluble	Solid	DI Leach	
880-34948-7	FS04	Soluble	Solid	DI Leach	
880-34948-8	SW02	Soluble	Solid	DI Leach	
880-34948-9	SW03	Soluble	Solid	DI Leach	
MB 880-65726/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65726/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65726/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34948-1 MS	PH02	Soluble	Solid	DI Leach	
880-34948-1 MSD	PH02	Soluble	Solid	DI Leach	

Analysis Batch: 65935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34948-1	PH02	Soluble	Solid	300.0	65726
880-34948-2	PH03	Soluble	Solid	300.0	65726
880-34948-3	FS01	Soluble	Solid	300.0	65726
880-34948-4	FS02	Soluble	Solid	300.0	65726
880-34948-5	SW01	Soluble	Solid	300.0	65726
880-34948-6	FS03	Soluble	Solid	300.0	65726
880-34948-7	FS04	Soluble	Solid	300.0	65726
880-34948-8	SW02	Soluble	Solid	300.0	65726
880-34948-9	SW03	Soluble	Solid	300.0	65726

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

HPLC/IC (Continued)

Analysis Batch: 65935 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-65726/1-A	Method Blank	Soluble	Solid	300.0	65726
LCS 880-65726/2-A	Lab Control Sample	Soluble	Solid	300.0	65726
LCSD 880-65726/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65726
880-34948-1 MS	PH02	Soluble	Solid	300.0	65726
880-34948-1 MSD	PH02	Soluble	Solid	300.0	65726

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

Client Sample ID: PH02
Date Collected: 10/25/23 09:40
Date Received: 10/27/23 12:18

Lab Sample ID: 880-34948-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			65815	MNR	EET MID	10/30/23 13:21
Total/NA	Analysis	8021B		1	65758	MNR	EET MID	10/31/23 05:04
Total/NA	Analysis	Total BTEX		1	65920	SM	EET MID	10/31/23 05:04
Total/NA	Analysis	8015 NM		1	65778	SM	EET MID	10/27/23 23:36
Total/NA	Prep	8015NM Prep			65731	TKC	EET MID	10/27/23 14:58
Total/NA	Analysis	8015B NM		1	65672	SM	EET MID	10/27/23 23:36
Soluble	Leach	DI Leach			65726	CH	EET MID	10/27/23 14:41
Soluble	Analysis	300.0		1	65935	CH	EET MID	11/01/23 03:19

Client Sample ID: PH03
Date Collected: 10/25/23 10:10
Date Received: 10/27/23 12:18

Lab Sample ID: 880-34948-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			65815	MNR	EET MID	10/30/23 13:21
Total/NA	Analysis	8021B		1	65758	MNR	EET MID	10/31/23 05:25
Total/NA	Analysis	Total BTEX		1	65920	SM	EET MID	10/31/23 05:25
Total/NA	Analysis	8015 NM		1	65778	SM	EET MID	10/27/23 23:57
Total/NA	Prep	8015NM Prep			65731	TKC	EET MID	10/27/23 14:58
Total/NA	Analysis	8015B NM		1	65672	SM	EET MID	10/27/23 23:57
Soluble	Leach	DI Leach			65726	CH	EET MID	10/27/23 14:41
Soluble	Analysis	300.0		1	65935	CH	EET MID	11/01/23 03:39

Client Sample ID: FS01
Date Collected: 10/25/23 11:10
Date Received: 10/27/23 12:18

Lab Sample ID: 880-34948-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			65815	MNR	EET MID	10/30/23 13:21
Total/NA	Analysis	8021B		1	65758	MNR	EET MID	10/31/23 05:45
Total/NA	Analysis	Total BTEX		1	65920	SM	EET MID	10/31/23 05:45
Total/NA	Analysis	8015 NM		1	65778	SM	EET MID	10/28/23 00:18
Total/NA	Prep	8015NM Prep			65731	TKC	EET MID	10/27/23 14:58
Total/NA	Analysis	8015B NM		1	65672	SM	EET MID	10/28/23 00:18
Soluble	Leach	DI Leach			65726	CH	EET MID	10/27/23 14:41
Soluble	Analysis	300.0		1	65935	CH	EET MID	11/01/23 03:45

Client Sample ID: FS02
Date Collected: 10/25/23 11:30
Date Received: 10/27/23 12:18

Lab Sample ID: 880-34948-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			65815	MNR	EET MID	10/30/23 13:21
Total/NA	Analysis	8021B		1	65758	MNR	EET MID	10/31/23 06:06
Total/NA	Analysis	Total BTEX		1	65920	SM	EET MID	10/31/23 06:06

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-34948-1
SDG: 03C1558283

Client Sample ID: FS02

Lab Sample ID: 880-34948-4
Matrix: Solid
Date Collected: 10/25/23 11:30
Date Received: 10/27/23 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	65778	SM	EET MID	10/28/23 00:18
Total/NA	Prep	8015NM Prep			65727	TKC	EET MID	10/27/23 14:43
Total/NA	Analysis	8015B NM		1	65673	SM	EET MID	10/28/23 00:18
Soluble	Leach	DI Leach			65726	CH	EET MID	10/27/23 14:41
Soluble	Analysis	300.0		1	65935	CH	EET MID	11/01/23 03:52

Client Sample ID: SW01

Lab Sample ID: 880-34948-5
Matrix: Solid
Date Collected: 10/25/23 11:45
Date Received: 10/27/23 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			65815	MNR	EET MID	10/30/23 13:21
Total/NA	Analysis	8021B		1	65758	MNR	EET MID	10/31/23 06:26
Total/NA	Analysis	Total BTEX		1	65920	SM	EET MID	10/31/23 06:26
Total/NA	Analysis	8015 NM		1	65778	SM	EET MID	10/30/23 13:28
Total/NA	Prep	8015NM Prep			65754	TKC	EET MID	10/30/23 08:22
Total/NA	Analysis	8015B NM		1	65746	SM	EET MID	10/30/23 13:28
Soluble	Leach	DI Leach			65726	CH	EET MID	10/27/23 14:41
Soluble	Analysis	300.0		1	65935	CH	EET MID	11/01/23 03:59

Client Sample ID: FS03

Lab Sample ID: 880-34948-6
Matrix: Solid
Date Collected: 10/25/23 12:10
Date Received: 10/27/23 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			65815	MNR	EET MID	10/30/23 13:21
Total/NA	Analysis	8021B		1	65758	MNR	EET MID	10/31/23 06:47
Total/NA	Analysis	Total BTEX		1	65920	SM	EET MID	10/31/23 06:47
Total/NA	Analysis	8015 NM		1	65778	SM	EET MID	10/30/23 13:50
Total/NA	Prep	8015NM Prep			65754	TKC	EET MID	10/30/23 08:22
Total/NA	Analysis	8015B NM		1	65746	SM	EET MID	10/30/23 13:50
Soluble	Leach	DI Leach			65726	CH	EET MID	10/27/23 14:41
Soluble	Analysis	300.0		1	65935	CH	EET MID	11/01/23 04:18

Client Sample ID: FS04

Lab Sample ID: 880-34948-7
Matrix: Solid
Date Collected: 10/25/23 12:20
Date Received: 10/27/23 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			65815	MNR	EET MID	10/30/23 13:21
Total/NA	Analysis	8021B		1	65758	MNR	EET MID	10/31/23 07:07
Total/NA	Analysis	Total BTEX		1	65920	SM	EET MID	10/31/23 07:07
Total/NA	Analysis	8015 NM		1	65778	SM	EET MID	10/30/23 14:12
Total/NA	Prep	8015NM Prep			65754	TKC	EET MID	10/30/23 08:22
Total/NA	Analysis	8015B NM		1	65746	SM	EET MID	10/30/23 14:12

Lab Chronicle

Client: Ensolum
Job ID: 880-34948-1
Project/Site: Poker Lake Unit 315H
SDG: 03C1558283

Client Sample ID: FS04
Lab Sample ID: 880-34948-7
Date Collected: 10/25/23 12:20
Matrix: Solid
Date Received: 10/27/23 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			65726	CH	EET MID	10/27/23 14:41
Soluble	Analysis	300.0		1	65935	CH	EET MID	11/01/23 04:25

Client Sample ID: SW02
Lab Sample ID: 880-34948-8
Date Collected: 10/25/23 12:30
Matrix: Solid
Date Received: 10/27/23 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			65790	MNR	EET MID	10/30/23 11:05
Total/NA	Analysis	8021B		1	65756	MNR	EET MID	10/30/23 21:58
Total/NA	Analysis	Total BTEX		1	65920	SM	EET MID	10/30/23 21:58
Total/NA	Analysis	8015 NM		1	65778	SM	EET MID	10/30/23 14:34
Total/NA	Prep	8015NM Prep			65754	TKC	EET MID	10/30/23 08:22
Total/NA	Analysis	8015B NM		1	65746	SM	EET MID	10/30/23 14:34
Soluble	Leach	DI Leach			65726	CH	EET MID	10/27/23 14:41
Soluble	Analysis	300.0		1	65935	CH	EET MID	11/01/23 04:32

Client Sample ID: SW03
Lab Sample ID: 880-34948-9
Date Collected: 10/25/23 12:40
Matrix: Solid
Date Received: 10/27/23 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			65790	MNR	EET MID	10/30/23 11:05
Total/NA	Analysis	8021B		1	65756	MNR	EET MID	10/30/23 22:24
Total/NA	Analysis	Total BTEX		1	65920	SM	EET MID	10/30/23 22:24
Total/NA	Analysis	8015 NM		1	65778	SM	EET MID	10/30/23 14:56
Total/NA	Prep	8015NM Prep			65754	TKC	EET MID	10/30/23 08:22
Total/NA	Analysis	8015B NM		1	65746	SM	EET MID	10/30/23 14:56
Soluble	Leach	DI Leach			65726	CH	EET MID	10/27/23 14:41
Soluble	Analysis	300.0		1	65935	CH	EET MID	11/01/23 04:38

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 315H

Job ID: 880-34948-1
SDG: 03C1558283

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 315H

Job ID: 880-34948-1
SDG: 03C1558283

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 315H

Job ID: 880-34948-1
SDG: 03C1558283

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-34948-1	PH02	Solid	10/25/23 09:40	10/27/23 12:18	3'
880-34948-2	PH03	Solid	10/25/23 10:10	10/27/23 12:18	2'
880-34948-3	FS01	Solid	10/25/23 11:10	10/27/23 12:18	2'
880-34948-4	FS02	Solid	10/25/23 11:30	10/27/23 12:18	2'
880-34948-5	SW01	Solid	10/25/23 11:45	10/27/23 12:18	0-2'
880-34948-6	FS03	Solid	10/25/23 12:10	10/27/23 12:18	3'
880-34948-7	FS04	Solid	10/25/23 12:20	10/27/23 12:18	3'
880-34948-8	SW02	Solid	10/25/23 12:30	10/27/23 12:18	0-3'
880-34948-9	SW03	Solid	10/25/23 12:40	10/27/23 12:18	0-3'

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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: 880-34948 Chain of Custody

www 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.Greene@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 315H	Turn Around	
Project Number:	03C15582B3	☒ Routine ☐ Rush	
Project Location	32.19757, -103.82733	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	TM09
Cooler Custody Seals.	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	4.2
Total Containers.		Corrected Temperature:	4.0

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	Chlorides	TPH	BTEX
PH02	S	10/25/23	9:40	3'	G	1	X	X	X
PH03	S		10 10	2'	G				
FS01	S		11 10	2'	C				
FS02	S		11.30	2'	C				
SW01	S		11:45	0-2'	C				
FS03	S		12 10	3'	C				
FS04	S		12:20	3'	C				
SW02	S		12:30	0-3'	C				
SW03	S		12.40	0-3'	C				

Sample Comments

Incident #.
nAPP2324233432
Cost Center.
1139521001
API.
30-015-39166
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 14.41	4		10/27/23 1218
3			6		
5					

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-34948-1
SDG Number: 03C1558283

Login Number: 34948
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Midland

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.	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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 11/6/2023 10:23:14 AM

JOB DESCRIPTION

Poker Lake Unit 315H
SDG NUMBER 32.19757, -103.82733

JOB NUMBER

880-35071-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

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
11/6/2023 10:23:14 AM

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

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Laboratory Job ID: 880-35071-1
SDG: 32.19757, -103.82733

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Definitions/Glossary

Client: Ensolum
Job ID: 880-35071-1
Project/Site: Poker Lake Unit 315H
SDG: 32.19757, -103.82733

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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 315H

Job ID: 880-35071-1
SDG: 32.19757, -103.82733

Job ID: 880-35071-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-35071-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/31/2023 11:23 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 1.5°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (880-35071-1), FS05 (880-35071-2), FS06 (880-35071-3) and Sw04 (880-35071-4).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-65862/20). 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: The surrogate recovery for the blank associated with preparation batch 880-65868 and analytical batch 880-65857 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS05 (880-35071-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-65868 and analytical batch 880-65857 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-65857 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-65857/8).

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 880-65886 and analytical batch 880-65985 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 315H

Job ID: 880-35071-1
SDG: 32.19757, -103.82733

Client Sample ID: PH01

Lab Sample ID: 880-35071-1
Matrix: Solid
Date Collected: 10/26/23 10:35
Date Received: 10/31/23 11:23
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		10/31/23 14:33	10/31/23 19:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/23 14:33	10/31/23 19:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/23 14:33	10/31/23 19:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/31/23 14:33	10/31/23 19:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/23 14:33	10/31/23 19:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/31/23 14:33	10/31/23 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*10/31/23 14:33*	*10/31/23 19:10*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*10/31/23 14:33*	*10/31/23 19:10*	*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			10/31/23 19:10	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			10/31/23 20:04	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		10/31/23 11:56	10/31/23 20:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/31/23 11:56	10/31/23 20:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/31/23 11:56	10/31/23 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*10/31/23 11:56*	*10/31/23 20:04*	*1*
o-Terphenyl	*80*		*70 - 130*	*10/31/23 11:56*	*10/31/23 20:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**	**F1**	5.02		mg/Kg			11/03/23 23:14	1

Client Sample ID: FS05

Lab Sample ID: 880-35071-2
Matrix: Solid
Date Collected: 10/26/23 12:30
Date Received: 10/31/23 11:23
Sample Depth: 3'

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		10/31/23 14:33	10/31/23 19:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/23 14:33	10/31/23 19:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/23 14:33	10/31/23 19:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/31/23 14:33	10/31/23 19:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/23 14:33	10/31/23 19:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/31/23 14:33	10/31/23 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*10/31/23 14:33*	*10/31/23 19:31*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35071-1
SDG: 32.19757, -103.82733

Client Sample ID: FS05

Date Collected: 10/26/23 12:30
Date Received: 10/31/23 11:23
Sample Depth: 3'

Lab Sample ID: 880-35071-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*10/31/23 14:33*	*10/31/23 19:31*	*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			10/31/23 19:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/31/23 20:32	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	<49.6	U	49.6		mg/Kg		10/31/23 11:56	10/31/23 20:32	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		10/31/23 11:56	10/31/23 20:32	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/31/23 11:56	10/31/23 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*10/31/23 11:56*	*10/31/23 20:32*	*1*
o-Terphenyl	*73*		*70 - 130*	*10/31/23 11:56*	*10/31/23 20:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**305**		4.97		mg/Kg			11/03/23 23:34	1

Client Sample ID: FS06

Date Collected: 10/26/23 12:55
Date Received: 10/31/23 11:23
Sample Depth: 3'

Lab Sample ID: 880-35071-3
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		10/31/23 14:33	10/31/23 19:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/31/23 14:33	10/31/23 19:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/31/23 14:33	10/31/23 19:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/31/23 14:33	10/31/23 19:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/31/23 14:33	10/31/23 19:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/31/23 14:33	10/31/23 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*10/31/23 14:33*	*10/31/23 19:51*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*10/31/23 14:33*	*10/31/23 19:51*	*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			10/31/23 19:51	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			10/31/23 21:22	1

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35071-1
SDG: 32.19757, -103.82733

Client Sample ID: FS06

Lab Sample ID: 880-35071-3
Matrix: Solid
Date Collected: 10/26/23 12:55
Date Received: 10/31/23 11:23
Sample Depth: 3'

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		10/31/23 11:56	10/31/23 21:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/31/23 11:56	10/31/23 21:22	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/31/23 11:56	10/31/23 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*10/31/23 11:56*	*10/31/23 21:22*	*1*
o-Terphenyl	*89*		*70 - 130*	*10/31/23 11:56*	*10/31/23 21:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**543**		5.02		mg/Kg			11/03/23 23:40	1

Client Sample ID: Sw04

Lab Sample ID: 880-35071-4
Matrix: Solid
Date Collected: 10/26/23 12:40
Date Received: 10/31/23 11:23
Sample Depth: 0-3'

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		10/31/23 14:33	10/31/23 20:12	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/31/23 14:33	10/31/23 20:12	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/31/23 14:33	10/31/23 20:12	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/31/23 14:33	10/31/23 20:12	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/31/23 14:33	10/31/23 20:12	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/31/23 14:33	10/31/23 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*10/31/23 14:33*	*10/31/23 20:12*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*10/31/23 14:33*	*10/31/23 20:12*	*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			10/31/23 20:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/31/23 21:51	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	<50.3	U	50.3		mg/Kg		10/31/23 11:56	10/31/23 21:51	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		10/31/23 11:56	10/31/23 21:51	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/31/23 11:56	10/31/23 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*10/31/23 11:56*	*10/31/23 21:51*	*1*
o-Terphenyl	*75*		*70 - 130*	*10/31/23 11:56*	*10/31/23 21:51*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35071-1
SDG: 32.19757, -103.82733

Client Sample ID: Sw04
Date Collected: 10/26/23 12:40
Date Received: 10/31/23 11:23
Sample Depth: 0-3'

Lab Sample ID: 880-35071-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	380		5.03		mg/Kg			11/03/23 23:47	1

Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35071-1
SDG: 32.19757, -103.82733

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)										
880-34990-A-8-A MB	Method Blank	89	77										
880-35071-1	PH01	89	86										
880-35071-2	FS05	90	89										
880-35071-3	FS06	86	82										
880-35071-4	Sw04	83	89										
LCS 880-65867/1-A	Lab Control Sample	109	117										
LCSD 880-65867/2-A	Lab Control Sample Dup	108	122										
MB 880-65867/5-A	Method Blank	70	98										

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)										
880-35071-1	PH01	73	80										
880-35071-2	FS05	69 S1-	73										
880-35071-3	FS06	83	89										
880-35071-4	Sw04	70	75										
LCS 880-65868/2-A	Lab Control Sample	89	96										
LCSD 880-65868/3-A	Lab Control Sample Dup	88	97										
MB 880-65868/1-A	Method Blank	122	148 S1+										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35071-1
SDG: 32.19757, -103.82733

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-34990-A-8-A MB
Matrix: Solid
Analysis Batch: 65862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65867

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/23 10:25	10/31/23 18:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/23 10:25	10/31/23 18:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/23 10:25	10/31/23 18:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/31/23 10:25	10/31/23 18:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/23 10:25	10/31/23 18:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/31/23 10:25	10/31/23 18:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*10/31/23 10:25*	*10/31/23 18:09*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*10/31/23 10:25*	*10/31/23 18:09*	*1*

Lab Sample ID: MB 880-65867/5-A
Matrix: Solid
Analysis Batch: 65862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65867

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/23 10:25	10/31/23 12:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/23 10:25	10/31/23 12:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/23 10:25	10/31/23 12:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/31/23 10:25	10/31/23 12:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/23 10:25	10/31/23 12:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/31/23 10:25	10/31/23 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*10/31/23 10:25*	*10/31/23 12:30*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*10/31/23 10:25*	*10/31/23 12:30*	*1*

Lab Sample ID: LCS 880-65867/1-A
Matrix: Solid
Analysis Batch: 65862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65867

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09385		mg/Kg		94	70 - 130		
Toluene			0.100	0.08950		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.08732		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.1877		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.09019		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: LCSD 880-65867/2-A
Matrix: Solid
Analysis Batch: 65862

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65867

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09011		mg/Kg		90	70 - 130	4	35

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35071-1
SDG: 32.19757, -103.82733

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

Lab Sample ID: LCSD 880-65867/2-A
Matrix: Solid
Analysis Batch: 65862

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65867

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08700		mg/Kg		87	70 - 130	3	35
Ethylbenzene			0.100	0.08676		mg/Kg		87	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1864		mg/Kg		93	70 - 130	1	35
o-Xylene			0.100	0.08932		mg/Kg		89	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*

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

Lab Sample ID: MB 880-65868/1-A
Matrix: Solid
Analysis Batch: 65857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65868

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		10/31/23 07:56	10/31/23 07:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/31/23 07:56	10/31/23 07:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/31/23 07:56	10/31/23 07:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*10/31/23 07:56*	*10/31/23 07:58*	*1*
o-Terphenyl	*148*	*S1+*	*70 - 130*	*10/31/23 07:56*	*10/31/23 07:58*	*1*

Lab Sample ID: LCS 880-65868/2-A
Matrix: Solid
Analysis Batch: 65857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65868

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	812.0		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	840.5		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: LCSD 880-65868/3-A
Matrix: Solid
Analysis Batch: 65857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	969.2		mg/Kg		97	70 - 130	18	20
Diesel Range Organics (Over C10-C28)			1000	871.1		mg/Kg		87	70 - 130	4	20

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35071-1
SDG: 32.19757, -103.82733

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

Lab Sample ID: LCSD 880-65868/3-A
Matrix: Solid
Analysis Batch: 65857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65868

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	97		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65886/1-A
Matrix: Solid
Analysis Batch: 65985

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			11/03/23 22:54	1

Lab Sample ID: LCS 880-65886/2-A
Matrix: Solid
Analysis Batch: 65985

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.1		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-65886/3-A
Matrix: Solid
Analysis Batch: 65985

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	251.3		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-35071-1 MS
Matrix: Solid
Analysis Batch: 65985

Client Sample ID: PH01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	230	F1	251	514.8	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 880-35071-1 MSD
Matrix: Solid
Analysis Batch: 65985

Client Sample ID: PH01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	230	F1	251	515.6	F1	mg/Kg		114	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35071-1
SDG: 32.19757, -103.82733

GC VOA

Analysis Batch: 65862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35071-1	PH01	Total/NA	Solid	8021B	65867
880-35071-2	FS05	Total/NA	Solid	8021B	65867
880-35071-3	FS06	Total/NA	Solid	8021B	65867
880-35071-4	Sw04	Total/NA	Solid	8021B	65867
880-34990-A-8-A MB	Method Blank	Total/NA	Solid	8021B	65867
MB 880-65867/5-A	Method Blank	Total/NA	Solid	8021B	65867
LCS 880-65867/1-A	Lab Control Sample	Total/NA	Solid	8021B	65867
LCSD 880-65867/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65867

Prep Batch: 65867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35071-1	PH01	Total/NA	Solid	5035	
880-35071-2	FS05	Total/NA	Solid	5035	
880-35071-3	FS06	Total/NA	Solid	5035	
880-35071-4	Sw04	Total/NA	Solid	5035	
880-34990-A-8-A MB	Method Blank	Total/NA	Solid	5035	
MB 880-65867/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65867/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65867/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 66094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35071-1	PH01	Total/NA	Solid	Total BTEX	
880-35071-2	FS05	Total/NA	Solid	Total BTEX	
880-35071-3	FS06	Total/NA	Solid	Total BTEX	
880-35071-4	Sw04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 65857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35071-1	PH01	Total/NA	Solid	8015B NM	65868
880-35071-2	FS05	Total/NA	Solid	8015B NM	65868
880-35071-3	FS06	Total/NA	Solid	8015B NM	65868
880-35071-4	Sw04	Total/NA	Solid	8015B NM	65868
MB 880-65868/1-A	Method Blank	Total/NA	Solid	8015B NM	65868
LCS 880-65868/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65868
LCSD 880-65868/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65868

Prep Batch: 65868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35071-1	PH01	Total/NA	Solid	8015NM Prep	
880-35071-2	FS05	Total/NA	Solid	8015NM Prep	
880-35071-3	FS06	Total/NA	Solid	8015NM Prep	
880-35071-4	Sw04	Total/NA	Solid	8015NM Prep	
MB 880-65868/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65868/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65868/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35071-1
SDG: 32.19757, -103.82733

GC Semi VOA

Analysis Batch: 65976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35071-1	PH01	Total/NA	Solid	8015 NM	
880-35071-2	FS05	Total/NA	Solid	8015 NM	
880-35071-3	FS06	Total/NA	Solid	8015 NM	
880-35071-4	Sw04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 65886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35071-1	PH01	Soluble	Solid	DI Leach	
880-35071-2	FS05	Soluble	Solid	DI Leach	
880-35071-3	FS06	Soluble	Solid	DI Leach	
880-35071-4	Sw04	Soluble	Solid	DI Leach	
MB 880-65886/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65886/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65886/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-35071-1 MS	PH01	Soluble	Solid	DI Leach	
880-35071-1 MSD	PH01	Soluble	Solid	DI Leach	

Analysis Batch: 65985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35071-1	PH01	Soluble	Solid	300.0	65886
880-35071-2	FS05	Soluble	Solid	300.0	65886
880-35071-3	FS06	Soluble	Solid	300.0	65886
880-35071-4	Sw04	Soluble	Solid	300.0	65886
MB 880-65886/1-A	Method Blank	Soluble	Solid	300.0	65886
LCS 880-65886/2-A	Lab Control Sample	Soluble	Solid	300.0	65886
LCSD 880-65886/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65886
880-35071-1 MS	PH01	Soluble	Solid	300.0	65886
880-35071-1 MSD	PH01	Soluble	Solid	300.0	65886

Lab Chronicle

Client: Ensolum
Job ID: 880-35071-1
Project/Site: Poker Lake Unit 315H
SDG: 32.19757, -103.82733

Client Sample ID: PH01
Lab Sample ID: 880-35071-1
Date Collected: 10/26/23 10:35
Matrix: Solid
Date Received: 10/31/23 11:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			65867	MNR	EET MID	10/31/23 14:33
Total/NA	Analysis	8021B		1	65862	SM	EET MID	10/31/23 19:10
Total/NA	Analysis	Total BTEX		1	66094	SM	EET MID	10/31/23 19:10
Total/NA	Analysis	8015 NM		1	65976	SM	EET MID	10/31/23 20:04
Total/NA	Prep	8015NM Prep			65868	TKC	EET MID	10/31/23 11:56
Total/NA	Analysis	8015B NM		1	65857	SM	EET MID	10/31/23 20:04
Soluble	Leach	DI Leach			65886	SMC	EET MID	10/31/23 12:44
Soluble	Analysis	300.0		1	65985	CH	EET MID	11/03/23 23:14

Client Sample ID: FS05
Lab Sample ID: 880-35071-2
Date Collected: 10/26/23 12:30
Matrix: Solid
Date Received: 10/31/23 11:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			65867	MNR	EET MID	10/31/23 14:33
Total/NA	Analysis	8021B		1	65862	SM	EET MID	10/31/23 19:31
Total/NA	Analysis	Total BTEX		1	66094	SM	EET MID	10/31/23 19:31
Total/NA	Analysis	8015 NM		1	65976	SM	EET MID	10/31/23 20:32
Total/NA	Prep	8015NM Prep			65868	TKC	EET MID	10/31/23 11:56
Total/NA	Analysis	8015B NM		1	65857	SM	EET MID	10/31/23 20:32
Soluble	Leach	DI Leach			65886	SMC	EET MID	10/31/23 12:44
Soluble	Analysis	300.0		1	65985	CH	EET MID	11/03/23 23:34

Client Sample ID: FS06
Lab Sample ID: 880-35071-3
Date Collected: 10/26/23 12:55
Matrix: Solid
Date Received: 10/31/23 11:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			65867	MNR	EET MID	10/31/23 14:33
Total/NA	Analysis	8021B		1	65862	SM	EET MID	10/31/23 19:51
Total/NA	Analysis	Total BTEX		1	66094	SM	EET MID	10/31/23 19:51
Total/NA	Analysis	8015 NM		1	65976	SM	EET MID	10/31/23 21:22
Total/NA	Prep	8015NM Prep			65868	TKC	EET MID	10/31/23 11:56
Total/NA	Analysis	8015B NM		1	65857	SM	EET MID	10/31/23 21:22
Soluble	Leach	DI Leach			65886	SMC	EET MID	10/31/23 12:44
Soluble	Analysis	300.0		1	65985	CH	EET MID	11/03/23 23:40

Client Sample ID: Sw04
Lab Sample ID: 880-35071-4
Date Collected: 10/26/23 12:40
Matrix: Solid
Date Received: 10/31/23 11:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			65867	MNR	EET MID	10/31/23 14:33
Total/NA	Analysis	8021B		1	65862	SM	EET MID	10/31/23 20:12
Total/NA	Analysis	Total BTEX		1	66094	SM	EET MID	10/31/23 20:12

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35071-1
SDG: 32.19757, -103.82733

Client Sample ID: Sw04

Date Collected: 10/26/23 12:40
Date Received: 10/31/23 11:23

Lab Sample ID: 880-35071-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	65976	SM	EET MID	10/31/23 21:51
Total/NA	Prep	8015NM Prep			65868	TKC	EET MID	10/31/23 11:56
Total/NA	Analysis	8015B NM		1	65857	SM	EET MID	10/31/23 21:51
Soluble	Leach	DI Leach			65886	SMC	EET MID	10/31/23 12:44
Soluble	Analysis	300.0		1	65985	CH	EET MID	11/03/23 23:47

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Job ID: 880-35071-1
Project/Site: Poker Lake Unit 315H
SDG: 32.19757, -103.82733

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 315H

Job ID: 880-35071-1
SDG: 32.19757, -103.82733

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 315H

Job ID: 880-35071-1
SDG: 32.19757, -103.82733

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-35071-1	PH01	Solid	10/26/23 10:35	10/31/23 11:23	2'
880-35071-2	FS05	Solid	10/26/23 12:30	10/31/23 11:23	3'
880-35071-3	FS06	Solid	10/26/23 12:55	10/31/23 11:23	3'
880-35071-4	Sw04	Solid	10/26/23 12:40	10/31/23 11:23	0-3'

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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

W

880-35071 Chain of Custody

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 315H	Turn Around	☒ Routine ☐ Rush
Project Number	03C1558283	Due Date	5 days
Project Location	32.19757, -103.82733	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name	Mariana O'Dell		
PO #			

SAMPLE RECEIPT			
Temp Blank	(Yes) No	Wet Ice	(Yes) No
Samples Received Intact	(Yes) No	Thermometer ID	TMN007
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

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	Chlorides	TPH	BTEX	Sample Comments
PH01	S	10/20/23	10 35	2'	G	1	X	X	X	Incident #
FS05	S	10/20/23	12 30	3'	C	1	X	X	X	nAPP2324233432
FS06	S	10/20/23	12 55	3	C	1	X	X	X	Cost center.
SW04	S	10/20/23	12 40	0-3'	C	1	X	X	X	1139521001
										API
										30-015 39166
										Ben Belill.
										bbelill@ensolum.com
									MO	1.3/1.5

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		14:54 10/27	4		10/31/23 1123
3			6		
5					

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-35071-1
SDG Number: 32.19757, -103.82733

Login Number: 35071
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/8/2023 8:40:34 AM

JOB DESCRIPTION

Poker Lake Unit 315H
SDG NUMBER 32.19751, -103.82733

JOB NUMBER

880-35215-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

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
11/8/2023 8:40:34 AM

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

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Laboratory Job ID: 880-35215-1
SDG: 32.19751, -103.82733

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Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35215-1
SDG: 32.19751, -103.82733

Qualifiers

GC VOA

Qualifier	Qualifier Description
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 315H

Job ID: 880-35215-1
SDG: 32.19751, -103.82733

Job ID: 880-35215-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-35215-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 11/2/2023 10:30 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 2.5°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: FS07 (880-35215-1), SW05 (880-35215-2) and SW06 (880-35215-3).

GC VOA
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 880-66046 and analytical batch 880-66022 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-35156-A-6-C), (880-35156-A-6-D MS) and (880-35156-A-6-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS07 (880-35215-1), SW05 (880-35215-2) and SW06 (880-35215-3). 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 880-66046 and analytical batch 880-66022 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.

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 315H

Job ID: 880-35215-1
SDG: 32.19751, -103.82733

Client Sample ID: FS07

Lab Sample ID: 880-35215-1
Matrix: Solid
Date Collected: 10/31/23 10:40
Date Received: 11/02/23 10:30
Sample Depth: 2'

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		11/03/23 08:04	11/03/23 14:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/03/23 08:04	11/03/23 14:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/03/23 08:04	11/03/23 14:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/03/23 08:04	11/03/23 14:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/03/23 08:04	11/03/23 14:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/03/23 08:04	11/03/23 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*11/03/23 08:04*	*11/03/23 14:17*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*11/03/23 08:04*	*11/03/23 14:17*	*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			11/03/23 14:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**65.8**		49.8		mg/Kg			11/02/23 19:53	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		11/02/23 11:05	11/02/23 19:53	1
Diesel Range Organics (Over C10-C28)	**65.8**		49.8		mg/Kg		11/02/23 11:05	11/02/23 19:53	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/23 11:05	11/02/23 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*161*	*S1+*	*70 - 130*	*11/02/23 11:05*	*11/02/23 19:53*	*1*
o-Terphenyl	*182*	*S1+*	*70 - 130*	*11/02/23 11:05*	*11/02/23 19:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**183**		5.01		mg/Kg			11/07/23 17:30	1

Client Sample ID: SW05

Lab Sample ID: 880-35215-2
Matrix: Solid
Date Collected: 10/31/23 10:45
Date Received: 11/02/23 10:30
Sample Depth: 0-3'

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		11/03/23 08:04	11/03/23 17:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/03/23 08:04	11/03/23 17:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/03/23 08:04	11/03/23 17:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/03/23 08:04	11/03/23 17:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/03/23 08:04	11/03/23 17:17	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/03/23 08:04	11/03/23 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*11/03/23 08:04*	*11/03/23 17:17*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35215-1
SDG: 32.19751, -103.82733

Client Sample ID: SW05

Lab Sample ID: 880-35215-2
Matrix: Solid
Date Collected: 10/31/23 10:45
Date Received: 11/02/23 10:30
Sample Depth: 0-3'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*11/03/23 08:04*	*11/03/23 17:17*	*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			11/03/23 17:17	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			11/02/23 20:15	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		11/02/23 11:05	11/02/23 20:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/02/23 11:05	11/02/23 20:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/02/23 11:05	11/02/23 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*150*	*S1+*	*70 - 130*	*11/02/23 11:05*	*11/02/23 20:15*	*1*
o-Terphenyl	*173*	*S1+*	*70 - 130*	*11/02/23 11:05*	*11/02/23 20:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82.7**		5.01	mg/Kg			11/07/23 17:47	1

Client Sample ID: SW06

Lab Sample ID: 880-35215-3
Matrix: Solid
Date Collected: 10/31/23 10:50
Date Received: 11/02/23 10:30
Sample Depth: 0-2'

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		11/03/23 08:04	11/03/23 17:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/03/23 08:04	11/03/23 17:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/03/23 08:04	11/03/23 17:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/03/23 08:04	11/03/23 17:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/03/23 08:04	11/03/23 17:38	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/03/23 08:04	11/03/23 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*11/03/23 08:04*	*11/03/23 17:38*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*11/03/23 08:04*	*11/03/23 17:38*	*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			11/03/23 17:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			11/02/23 20:37	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35215-1
SDG: 32.19751, -103.82733

Client Sample ID: SW06

Date Collected: 10/31/23 10:50
Date Received: 11/02/23 10:30
Sample Depth: 0-2'

Lab Sample ID: 880-35215-3

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	<50.2	U	50.2		mg/Kg		11/02/23 11:05	11/02/23 20:37	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		11/02/23 11:05	11/02/23 20:37	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		11/02/23 11:05	11/02/23 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*11/02/23 11:05*	*11/02/23 20:37*	*1*
o-Terphenyl	*155*	*S1+*	*70 - 130*	*11/02/23 11:05*	*11/02/23 20:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**172**		5.02		mg/Kg			11/07/23 17:53	1

Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35215-1
SDG: 32.19751, -103.82733

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)
880-35215-1	FS07	88	90
880-35215-2	SW05	82	81
880-35215-3	SW06	88	83
LCS 880-66132/1-A	Lab Control Sample	106	120
LCSD 880-66132/2-A	Lab Control Sample Dup	114	121
MB 880-66132/5-A	Method Blank	74	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)
880-35215-1	FS07	161 S1+	182 S1+
880-35215-2	SW05	150 S1+	173 S1+
880-35215-3	SW06	135 S1+	155 S1+
LCS 880-66046/2-A	Lab Control Sample	79	96
LCSD 880-66046/3-A	Lab Control Sample Dup	73	89
MB 880-66046/1-A	Method Blank	188 S1+	219 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35215-1
SDG: 32.19751, -103.82733

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66132/5-A
Matrix: Solid
Analysis Batch: 66130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66132

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/03/23 08:04	11/03/23 11:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/23 08:04	11/03/23 11:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/23 08:04	11/03/23 11:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/03/23 08:04	11/03/23 11:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/03/23 08:04	11/03/23 11:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/03/23 08:04	11/03/23 11:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*11/03/23 08:04*	*11/03/23 11:10*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*11/03/23 08:04*	*11/03/23 11:10*	*1*

Lab Sample ID: LCS 880-66132/1-A
Matrix: Solid
Analysis Batch: 66130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66132

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09192		mg/Kg		92	70 - 130		
Toluene			0.100	0.08765		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.08557		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene			0.200	0.1836		mg/Kg		92	70 - 130		
o-Xylene			0.100	0.08849		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*

Lab Sample ID: LCSD 880-66132/2-A
Matrix: Solid
Analysis Batch: 66130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66132

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09299		mg/Kg		93	70 - 130	1	35
Toluene			0.100	0.08745		mg/Kg		87	70 - 130	0	35
Ethylbenzene			0.100	0.08940		mg/Kg		89	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1920		mg/Kg		96	70 - 130	4	35
o-Xylene			0.100	0.09302		mg/Kg		93	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35215-1
SDG: 32.19751, -103.82733

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

Lab Sample ID: MB 880-66046/1-A
Matrix: Solid
Analysis Batch: 66022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66046

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		11/02/23 08:05	11/02/23 09:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/23 08:05	11/02/23 09:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/23 08:05	11/02/23 09:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*188*	*S1+*	*70 - 130*	*11/02/23 08:05*	*11/02/23 09:17*	*1*
o-Terphenyl	*219*	*S1+*	*70 - 130*	*11/02/23 08:05*	*11/02/23 09:17*	*1*

Lab Sample ID: LCS 880-66046/2-A
Matrix: Solid
Analysis Batch: 66022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66046

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1080		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	882.8		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*79*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: LCSD 880-66046/3-A
Matrix: Solid
Analysis Batch: 66022

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66046

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	889.5		mg/Kg		89	70 - 130	19	20
Diesel Range Organics (Over C10-C28)			1000	806.1		mg/Kg		81	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*73*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66120/1-A
Matrix: Solid
Analysis Batch: 66376

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			11/07/23 17:13	1

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35215-1
SDG: 32.19751, -103.82733

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-66120/2-A
Matrix: Solid
Analysis Batch: 66376

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.1		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-66120/3-A
Matrix: Solid
Analysis Batch: 66376

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	257.7		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-35215-1 MS
Matrix: Solid
Analysis Batch: 66376

Client Sample ID: FS07
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	183		251	431.6		mg/Kg		99	90 - 110		

Lab Sample ID: 880-35215-1 MSD
Matrix: Solid
Analysis Batch: 66376

Client Sample ID: FS07
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	183		251	430.1		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35215-1
SDG: 32.19751, -103.82733

GC VOA

Analysis Batch: 66130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35215-1	FS07	Total/NA	Solid	8021B	66132
880-35215-2	SW05	Total/NA	Solid	8021B	66132
880-35215-3	SW06	Total/NA	Solid	8021B	66132
MB 880-66132/5-A	Method Blank	Total/NA	Solid	8021B	66132
LCS 880-66132/1-A	Lab Control Sample	Total/NA	Solid	8021B	66132
LCSD 880-66132/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66132

Prep Batch: 66132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35215-1	FS07	Total/NA	Solid	5035	
880-35215-2	SW05	Total/NA	Solid	5035	
880-35215-3	SW06	Total/NA	Solid	5035	
MB 880-66132/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66132/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66132/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 66289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35215-1	FS07	Total/NA	Solid	Total BTEX	
880-35215-2	SW05	Total/NA	Solid	Total BTEX	
880-35215-3	SW06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 66022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35215-1	FS07	Total/NA	Solid	8015B NM	66046
880-35215-2	SW05	Total/NA	Solid	8015B NM	66046
880-35215-3	SW06	Total/NA	Solid	8015B NM	66046
MB 880-66046/1-A	Method Blank	Total/NA	Solid	8015B NM	66046
LCS 880-66046/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66046
LCSD 880-66046/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66046

Prep Batch: 66046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35215-1	FS07	Total/NA	Solid	8015NM Prep	
880-35215-2	SW05	Total/NA	Solid	8015NM Prep	
880-35215-3	SW06	Total/NA	Solid	8015NM Prep	
MB 880-66046/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66046/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66046/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35215-1	FS07	Total/NA	Solid	8015 NM	
880-35215-2	SW05	Total/NA	Solid	8015 NM	
880-35215-3	SW06	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35215-1
SDG: 32.19751, -103.82733

HPLC/IC

Leach Batch: 66120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35215-1	FS07	Soluble	Solid	DI Leach	
880-35215-2	SW05	Soluble	Solid	DI Leach	
880-35215-3	SW06	Soluble	Solid	DI Leach	
MB 880-66120/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66120/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66120/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-35215-1 MS	FS07	Soluble	Solid	DI Leach	
880-35215-1 MSD	FS07	Soluble	Solid	DI Leach	

Analysis Batch: 66376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35215-1	FS07	Soluble	Solid	300.0	66120
880-35215-2	SW05	Soluble	Solid	300.0	66120
880-35215-3	SW06	Soluble	Solid	300.0	66120
MB 880-66120/1-A	Method Blank	Soluble	Solid	300.0	66120
LCS 880-66120/2-A	Lab Control Sample	Soluble	Solid	300.0	66120
LCSD 880-66120/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66120
880-35215-1 MS	FS07	Soluble	Solid	300.0	66120
880-35215-1 MSD	FS07	Soluble	Solid	300.0	66120

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 315H

Job ID: 880-35215-1
SDG: 32.19751, -103.82733

Client Sample ID: FS07

Lab Sample ID: 880-35215-1
Matrix: Solid
Date Collected: 10/31/23 10:40
Date Received: 11/02/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			66132	EL	EET MID	11/03/23 08:04
Total/NA	Analysis	8021B		1	66130	MNR	EET MID	11/03/23 14:17
Total/NA	Analysis	Total BTEX		1	66289	SM	EET MID	11/03/23 14:17
Total/NA	Analysis	8015 NM		1	66170	SM	EET MID	11/02/23 19:53
Total/NA	Prep	8015NM Prep			66046	TKC	EET MID	11/02/23 11:05
Total/NA	Analysis	8015B NM		1	66022	SM	EET MID	11/02/23 19:53
Soluble	Leach	DI Leach			66120	SMC	EET MID	11/02/23 18:08
Soluble	Analysis	300.0		1	66376	CH	EET MID	11/07/23 17:30

Client Sample ID: SW05

Lab Sample ID: 880-35215-2
Matrix: Solid
Date Collected: 10/31/23 10:45
Date Received: 11/02/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			66132	EL	EET MID	11/03/23 08:04
Total/NA	Analysis	8021B		1	66130	MNR	EET MID	11/03/23 17:17
Total/NA	Analysis	Total BTEX		1	66289	SM	EET MID	11/03/23 17:17
Total/NA	Analysis	8015 NM		1	66170	SM	EET MID	11/02/23 20:15
Total/NA	Prep	8015NM Prep			66046	TKC	EET MID	11/02/23 11:05
Total/NA	Analysis	8015B NM		1	66022	SM	EET MID	11/02/23 20:15
Soluble	Leach	DI Leach			66120	SMC	EET MID	11/02/23 18:08
Soluble	Analysis	300.0		1	66376	CH	EET MID	11/07/23 17:47

Client Sample ID: SW06

Lab Sample ID: 880-35215-3
Matrix: Solid
Date Collected: 10/31/23 10:50
Date Received: 11/02/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			66132	EL	EET MID	11/03/23 08:04
Total/NA	Analysis	8021B		1	66130	MNR	EET MID	11/03/23 17:38
Total/NA	Analysis	Total BTEX		1	66289	SM	EET MID	11/03/23 17:38
Total/NA	Analysis	8015 NM		1	66170	SM	EET MID	11/02/23 20:37
Total/NA	Prep	8015NM Prep			66046	TKC	EET MID	11/02/23 11:05
Total/NA	Analysis	8015B NM		1	66022	SM	EET MID	11/02/23 20:37
Soluble	Leach	DI Leach			66120	SMC	EET MID	11/02/23 18:08
Soluble	Analysis	300.0		1	66376	CH	EET MID	11/07/23 17:53

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Job ID: 880-35215-1
Project/Site: Poker Lake Unit 315H
SDG: 32.19751, -103.82733

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 315H

Job ID: 880-35215-1
SDG: 32.19751, -103.82733

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 315H

Job ID: 880-35215-1
SDG: 32.19751, -103.82733

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-35215-1	FS07	Solid	10/31/23 10:40	11/02/23 10:30	2'
880-35215-2	SW05	Solid	10/31/23 10:45	11/02/23 10:30	0-3'
880-35215-3	SW06	Solid	10/31/23 10:50	11/02/23 10:30	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

Worl

880-35215 Chain of Custody

ww

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 315H	Turn Around	
Project Number	03G1558283	☒ Routine ☐ Rush	
Project Location	32.19751, -103.82733	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	TPM007
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

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
FS07	S	10/31/23	10 40	2'	C	1		X	X	X
SW05	S	↓	10 45	0-3'	C	1		X	X	X
SW06	S	↓	10.50	0-2'	C	1		X	X	X

Sample Comments

Incident #:
nAPP2324233432
Cost center:
1139521001
API
30-015-39166
Ben Belill
NAD
bbelill@ensolum.com
2.8/25

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			4		
3			6		
5					

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-35215-1
SDG Number: 32.19751, -103.82733

Login Number: 35215
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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 10/25/2023 10:48:41 AM

JOB DESCRIPTION

POKER LAKE UNIT 315H
SDG NUMBER 03C1558283

JOB NUMBER

890-5481-1

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
10/25/2023 10:48:41 AM

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

Client: Ensolum
Project/Site: POKER LAKE UNIT 315H

Laboratory Job ID: 890-5481-1
SDG: 03C1558283

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Definitions/Glossary

Client: Ensolum
Project/Site: POKER LAKE UNIT 315H

Job ID: 890-5481-1
SDG: 03C1558283

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, high 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
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 315H

Job ID: 890-5481-1
SDG: 03C1558283

Job ID: 890-5481-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5481-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/18/2023 2:34 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 2.4°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-5481-1), SS02 (890-5481-2) and SS03 (890-5481-3).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: SS03 (890-5481-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-65371 and analytical batch 880-65442 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 surrogate recovery for the blank associated with preparation batch 880-65263 and analytical batch 880-65282 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-5481-1), SS02 (890-5481-2) and SS03 (890-5481-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-65282/31), (CCV 880-65282/47) and (CCV 880-65282/58). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-65210 and analytical batch 880-65362 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 315H

Job ID: 890-5481-1
SDG: 03C1558283

Client Sample ID: SS01

Lab Sample ID: 890-5481-1
Matrix: Solid
Date Collected: 10/18/23 11:35
Date Received: 10/18/23 14:34
Sample Depth: 0.5'

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		10/23/23 14:57	10/24/23 23:46	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		10/23/23 14:57	10/24/23 23:46	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		10/23/23 14:57	10/24/23 23:46	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		10/23/23 14:57	10/24/23 23:46	1
o-Xylene	<0.00199	U F2 F1	0.00199		mg/Kg		10/23/23 14:57	10/24/23 23:46	1
Xylenes, Total	<0.00398	U F2 F1	0.00398		mg/Kg		10/23/23 14:57	10/24/23 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*10/23/23 14:57*	*10/24/23 23:46*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*10/23/23 14:57*	*10/24/23 23:46*	*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			10/24/23 23:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4660**		50.5		mg/Kg			10/23/23 02:32	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	<50.5	U	50.5		mg/Kg		10/20/23 18:14	10/23/23 02:32	1
Diesel Range Organics (Over C10-C28)	**4660**		50.5		mg/Kg		10/20/23 18:14	10/23/23 02:32	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/20/23 18:14	10/23/23 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*10/20/23 18:14*	*10/23/23 02:32*	*1*
o-Terphenyl	*113*		*70 - 130*	*10/20/23 18:14*	*10/23/23 02:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<25.0	U	25.0		mg/Kg			10/23/23 21:35	5

Client Sample ID: SS02

Lab Sample ID: 890-5481-2
Matrix: Solid
Date Collected: 10/18/23 11:40
Date Received: 10/18/23 14:34
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/23/23 14:57	10/25/23 00:07	1
Toluene	**0.0520**		0.00198		mg/Kg		10/23/23 14:57	10/25/23 00:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/23/23 14:57	10/25/23 00:07	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/23/23 14:57	10/25/23 00:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/23/23 14:57	10/25/23 00:07	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/23/23 14:57	10/25/23 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*10/23/23 14:57*	*10/25/23 00:07*	*1*

Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 315H

Job ID: 890-5481-1
SDG: 03C1558283

Client Sample ID: SS02

Lab Sample ID: 890-5481-2
Matrix: Solid
Date Collected: 10/18/23 11:40
Date Received: 10/18/23 14:34
Sample Depth: 0.5'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/23/23 14:57*	*10/25/23 00:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0520**		0.00397	mg/Kg			10/25/23 00:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1720**		50.0	mg/Kg			10/23/23 02:54	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		10/20/23 18:14	10/23/23 02:54	1
Diesel Range Organics (Over C10-C28)	**1720**		50.0	mg/Kg		10/20/23 18:14	10/23/23 02:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/20/23 18:14	10/23/23 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*180*	*S1+*	*70 - 130*	*10/20/23 18:14*	*10/23/23 02:54*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*10/20/23 18:14*	*10/23/23 02:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6640**		50.1	mg/Kg			10/23/23 21:46	10

Client Sample ID: SS03

Lab Sample ID: 890-5481-3
Matrix: Solid
Date Collected: 10/18/23 11:45
Date Received: 10/18/23 14:34
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/23/23 14:57	10/25/23 00:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/23/23 14:57	10/25/23 00:27	1
Ethylbenzene	**0.0151**		0.00200	mg/Kg		10/23/23 14:57	10/25/23 00:27	1
m-Xylene & p-Xylene	**0.0389**		0.00399	mg/Kg		10/23/23 14:57	10/25/23 00:27	1
o-Xylene	**0.0202**		0.00200	mg/Kg		10/23/23 14:57	10/25/23 00:27	1
Xylenes, Total	**0.0591**		0.00399	mg/Kg		10/23/23 14:57	10/25/23 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*168*	*S1+*	*70 - 130*	*10/23/23 14:57*	*10/25/23 00:27*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*10/23/23 14:57*	*10/25/23 00:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0742**		0.00399	mg/Kg			10/25/23 00:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**10100**		249	mg/Kg			10/23/23 03:58	1

Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 315H

Job ID: 890-5481-1
SDG: 03C1558283

Client Sample ID: SS03
Date Collected: 10/18/23 11:45
Date Received: 10/18/23 14:34
Sample Depth: 0.5'

Lab Sample ID: 890-5481-3
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	<249	U	249		mg/Kg		10/20/23 18:14	10/23/23 03:58	5
Diesel Range Organics (Over C10-C28)	**10100**		249		mg/Kg		10/20/23 18:14	10/23/23 03:58	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		10/20/23 18:14	10/23/23 03:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*155*	*S1+*	*70 - 130*	*10/20/23 18:14*	*10/23/23 03:58*	*5*
o-Terphenyl	*123*		*70 - 130*	*10/20/23 18:14*	*10/23/23 03:58*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8470**	**F1**	99.4		mg/Kg			10/23/23 21:57	20

Surrogate Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 315H

Job ID: 890-5481-1
SDG: 03C1558283

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)
890-5481-1	SS01	126	110
890-5481-1 MS	SS01	145 S1+	124
890-5481-1 MSD	SS01	138 S1+	109
890-5481-2	SS02	115	100
890-5481-3	SS03	168 S1+	98
LCS 880-65371/1-A	Lab Control Sample	121	123
LCSD 880-65371/2-A	Lab Control Sample Dup	120	116
MB 880-65370/5-A	Method Blank	72	97
MB 880-65371/5-A	Method Blank	70	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)
890-5480-A-1-C MS	Matrix Spike	123	96
890-5480-A-1-D MSD	Matrix Spike Duplicate	128	99
890-5481-1	SS01	149 S1+	113
890-5481-2	SS02	180 S1+	140 S1+
890-5481-3	SS03	155 S1+	123
LCS 880-65263/2-A	Lab Control Sample	121	125
LCSD 880-65263/3-A	Lab Control Sample Dup	110	107
MB 880-65263/1-A	Method Blank	216 S1+	196 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 315H

Job ID: 890-5481-1
SDG: 03C1558283

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65370/5-A
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65370

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/23/23 14:42	10/24/23 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*10/23/23 14:42*	*10/24/23 11:07*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*10/23/23 14:42*	*10/24/23 11:07*	*1*

Lab Sample ID: MB 880-65371/5-A
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65371

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:57	10/24/23 23:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:57	10/24/23 23:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:57	10/24/23 23:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/23/23 14:57	10/24/23 23:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:57	10/24/23 23:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/23/23 14:57	10/24/23 23:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*10/23/23 14:57*	*10/24/23 23:25*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*10/23/23 14:57*	*10/24/23 23:25*	*1*

Lab Sample ID: LCS 880-65371/1-A
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65371

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08697		mg/Kg		87	70 - 130		
Toluene			0.100	0.09061		mg/Kg		91	70 - 130		
Ethylbenzene			0.100	0.09963		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene			0.200	0.2097		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.1023		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*

Lab Sample ID: LCSD 880-65371/2-A
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65371

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08554		mg/Kg		86	70 - 130	2	35

QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 315H

Job ID: 890-5481-1
SDG: 03C1558283

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

Lab Sample ID: LCSD 880-65371/2-A
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65371

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08974		mg/Kg		90	70 - 130	1	35
Ethylbenzene			0.100	0.09628		mg/Kg		96	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2051		mg/Kg		103	70 - 130	2	35
o-Xylene			0.100	0.09948		mg/Kg		99	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*

Lab Sample ID: 890-5481-1 MS
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 65371

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08253		mg/Kg		83	70 - 130
Toluene	<0.00199	U F1	0.0996	0.06022	F1	mg/Kg		60	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.04405	F1	mg/Kg		44	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.05733	F1	mg/Kg		29	70 - 130
o-Xylene	<0.00199	U F2 F1	0.0996	0.04776	F1	mg/Kg		48	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*

Lab Sample ID: 890-5481-1 MSD
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 65371

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.08513		mg/Kg		85	70 - 130	3	35
Toluene	<0.00199	U F1	0.0996	0.07865		mg/Kg		79	70 - 130	27	35
Ethylbenzene	<0.00199	U F1	0.0996	0.05435	F1	mg/Kg		55	70 - 130	21	35
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.08202	F1	mg/Kg		41	70 - 130	35	35
o-Xylene	<0.00199	U F2 F1	0.0996	0.06888	F2 F1	mg/Kg		69	70 - 130	36	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

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

Lab Sample ID: MB 880-65263/1-A
Matrix: Solid
Analysis Batch: 65282

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65263

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		10/20/23 18:14	10/22/23 20:03	1

QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 315H

Job ID: 890-5481-1
SDG: 03C1558283

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

Lab Sample ID: MB 880-65263/1-A
Matrix: Solid
Analysis Batch: 65282

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65263

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		10/20/23 18:14	10/22/23 20:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/20/23 18:14	10/22/23 20:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*216*	*S1+*	*70 - 130*	*10/20/23 18:14*	*10/22/23 20:03*	*1*
o-Terphenyl	*196*	*S1+*	*70 - 130*	*10/20/23 18:14*	*10/22/23 20:03*	*1*

Lab Sample ID: LCS 880-65263/2-A
Matrix: Solid
Analysis Batch: 65282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65263

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1062		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	991.0		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*121*		*70 - 130*
o-Terphenyl	*125*		*70 - 130*

Lab Sample ID: LCSD 880-65263/3-A
Matrix: Solid
Analysis Batch: 65282

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65263

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1032		mg/Kg		103	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	949.9		mg/Kg		95	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: 890-5480-A-1-C MS
Matrix: Solid
Analysis Batch: 65282

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 65263

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	998	897.0		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U	998	1215		mg/Kg		120	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*123*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 315H

Job ID: 890-5481-1
SDG: 03C1558283

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

Lab Sample ID: 890-5480-A-1-D MSD
Matrix: Solid
Analysis Batch: 65282

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 65263

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	<49.6	U	998	933.8		mg/Kg		91	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.6	U	998	1269		mg/Kg		125	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*128*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65210/1-A
Matrix: Solid
Analysis Batch: 65362

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			10/23/23 19:14	1

Lab Sample ID: LCS 880-65210/2-A
Matrix: Solid
Analysis Batch: 65362

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	243.1		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-65210/3-A
Matrix: Solid
Analysis Batch: 65362

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	243.6		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-5481-3 MS
Matrix: Solid
Analysis Batch: 65362

Client Sample ID: SS03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	8470	F1	4970	14250	F1	mg/Kg		116	90 - 110		

Lab Sample ID: 890-5481-3 MSD
Matrix: Solid
Analysis Batch: 65362

Client Sample ID: SS03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8470	F1	4970	14310	F1	mg/Kg		117	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 315H

Job ID: 890-5481-1
SDG: 03C1558283

GC VOA

Prep Batch: 65370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-65370/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 65371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5481-1	SS01	Total/NA	Solid	5035	
890-5481-2	SS02	Total/NA	Solid	5035	
890-5481-3	SS03	Total/NA	Solid	5035	
MB 880-65371/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65371/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65371/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5481-1 MS	SS01	Total/NA	Solid	5035	
890-5481-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 65442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5481-1	SS01	Total/NA	Solid	8021B	65371
890-5481-2	SS02	Total/NA	Solid	8021B	65371
890-5481-3	SS03	Total/NA	Solid	8021B	65371
MB 880-65370/5-A	Method Blank	Total/NA	Solid	8021B	65370
MB 880-65371/5-A	Method Blank	Total/NA	Solid	8021B	65371
LCS 880-65371/1-A	Lab Control Sample	Total/NA	Solid	8021B	65371
LCSD 880-65371/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65371
890-5481-1 MS	SS01	Total/NA	Solid	8021B	65371
890-5481-1 MSD	SS01	Total/NA	Solid	8021B	65371

Analysis Batch: 65551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5481-1	SS01	Total/NA	Solid	Total BTEX	
890-5481-2	SS02	Total/NA	Solid	Total BTEX	
890-5481-3	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 65263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5481-1	SS01	Total/NA	Solid	8015NM Prep	
890-5481-2	SS02	Total/NA	Solid	8015NM Prep	
890-5481-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-65263/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65263/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65263/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5480-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5480-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 65282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5481-1	SS01	Total/NA	Solid	8015B NM	65263
890-5481-2	SS02	Total/NA	Solid	8015B NM	65263
890-5481-3	SS03	Total/NA	Solid	8015B NM	65263
MB 880-65263/1-A	Method Blank	Total/NA	Solid	8015B NM	65263
LCS 880-65263/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65263

QC Association Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 315H

Job ID: 890-5481-1
SDG: 03C1558283

GC Semi VOA (Continued)

Analysis Batch: 65282 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-65263/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65263
890-5480-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	65263
890-5480-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	65263

Analysis Batch: 65380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5481-1	SS01	Total/NA	Solid	8015 NM	
890-5481-2	SS02	Total/NA	Solid	8015 NM	
890-5481-3	SS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 65210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5481-1	SS01	Soluble	Solid	DI Leach	
890-5481-2	SS02	Soluble	Solid	DI Leach	
890-5481-3	SS03	Soluble	Solid	DI Leach	
MB 880-65210/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65210/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65210/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5481-3 MS	SS03	Soluble	Solid	DI Leach	
890-5481-3 MSD	SS03	Soluble	Solid	DI Leach	

Analysis Batch: 65362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5481-1	SS01	Soluble	Solid	300.0	65210
890-5481-2	SS02	Soluble	Solid	300.0	65210
890-5481-3	SS03	Soluble	Solid	300.0	65210
MB 880-65210/1-A	Method Blank	Soluble	Solid	300.0	65210
LCS 880-65210/2-A	Lab Control Sample	Soluble	Solid	300.0	65210
LCSD 880-65210/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65210
890-5481-3 MS	SS03	Soluble	Solid	300.0	65210
890-5481-3 MSD	SS03	Soluble	Solid	300.0	65210

Lab Chronicle

Client: Ensolum
Project/Site: POKER LAKE UNIT 315H

Job ID: 890-5481-1
SDG: 03C1558283

Client Sample ID: SS01
Date Collected: 10/18/23 11:35
Date Received: 10/18/23 14:34

Lab Sample ID: 890-5481-1
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			5.03 g	5 mL	65371	10/23/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65442	10/24/23 23:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65551	10/24/23 23:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			65380	10/23/23 02:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	65263	10/20/23 18:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/23/23 02:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	65210	10/20/23 11:51	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	65362	10/23/23 21:35	CH	EET MID

Client Sample ID: SS02
Date Collected: 10/18/23 11:40
Date Received: 10/18/23 14:34

Lab Sample ID: 890-5481-2
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			5.04 g	5 mL	65371	10/23/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65442	10/25/23 00:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65551	10/25/23 00:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			65380	10/23/23 02:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	65263	10/20/23 18:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/23/23 02:54	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	65210	10/20/23 11:51	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	65362	10/23/23 21:46	CH	EET MID

Client Sample ID: SS03
Date Collected: 10/18/23 11:45
Date Received: 10/18/23 14:34

Lab Sample ID: 890-5481-3
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			5.01 g	5 mL	65371	10/23/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65442	10/25/23 00:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65551	10/25/23 00:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			65380	10/23/23 03:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	65263	10/20/23 18:14	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	65282	10/23/23 03:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	65210	10/20/23 11:51	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	65362	10/23/23 21:57	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 315H

Job ID: 890-5481-1
SDG: 03C1558283

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 315H

Job ID: 890-5481-1
SDG: 03C1558283

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 315H

Job ID: 890-5481-1
SDG: 03C1558283

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5481-1	SS01	Solid	10/18/23 11:35	10/18/23 14:34	0.5'
890-5481-2	SS02	Solid	10/18/23 11:40	10/18/23 14:34	0.5'
890-5481-3	SS03	Solid	10/18/23 11:45	10/18/23 14:34	0.5'

eurofins | Environment Testing Xenco

Chain of Custody

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

Work Order No:

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 315H	Turn Around	
Project Number:	32.19757, -103.82733	☒ Routine ☐ Rush	
Project Location:	03C1558283	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:	TM009
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	2.6
Total Containers:		Corrected Temperature:	2.4

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
SS01	S	10/18/23	11:35	0.5'	G	1		X	X	X
SS02	S	10/18/23	11:40	0.5'	G	1		X	X	X
SS03	S	10/18/23	11:45	0.5'	G	1		X	X	X

890-5481 Chain of Custody

Sample Comments

Incident #:
nAPP2324233432
Cost Center:
1139521001
API:
30-015-39166
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			2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5481-1
SDG Number: 03C1558283

Login Number: 5481
List Number: 1
Creator: Bruns, Shannon

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: 890-5481-1
SDG Number: 03C1558283

Login Number: 5481
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 10/20/23 11:02 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	

ENSOLUM

APPENDIX E

NMOCD Notifications

From: Wells, Shelly, EMNRD
To: Collins, Melanie; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD; Hall, Brittany, EMNRD
Cc: Green, Garrett J; Ben Belill; Lambert, Tommee L; DelawareSpills /SM; Tacoma Morrissey
Subject: RE: [EXTERNAL] XTO Sampling notifications Week of 10.23.23-10.27.23
Date: Wednesday, October 18, 2023 5:58:25 PM
Attachments: image001.png

> Some people who received this message don't often get email from shelly.wells@emnrd.nm.gov. Learn why this is important

[**EXTERNAL EMAIL**]

Hi Melanie,

The OCD has received your notification. 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.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Wednesday, October 18, 2023 3:16 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Green, Garrett J <garrett.green@exxonmobil.com>; bbelill@ensolum.com; Lambert, Tommee L <tommee.l.lambert@exxonmobil.com>; DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>
Subject: [EXTERNAL] XTO Sampling notifications Week of 10.23.23-10.27.23

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Ok, Shelly, ask and you shall receive—haha! Let me know if you'd like them sent individually in the future, or if it is ok to send in bulk like this.

XTO plans to complete final sampling activities at the sites listed below for the week of October 23.2023 between 8 a.m. and 5 p.m. Please reach out with questions or concerns.
Thank you!

Site Name	BEU Connector PW Booster
Location	H-22-23S-30E; Eddy County, NM
Incident ID	nAPP2213151424
Source & Description of Activities	Sampling
Expected Duration for Activities	5 Days (10.23.23-10.27.23)
Env Consultant	Ensolum
Contractor	Tex Mex
Sampling Notification Required	Yes
Surface Owner	SLO

Site Name	Mobley Ranch Pipeline
Location	H-22-23S-30E; Eddy County, NM
Incident ID	nAPP2316045229
Source & Description of Activities	Sampling
Expected Duration for Activities	5 Days (10.23.23-10.27.23)
Env Consultant	Ensolum
Contractor	Tex Mex
Sampling Notification Required	Yes
Surface Owner	SLO

Site Name	JRU 91 Flowline
Location	K-36-22S-30E; Eddy County, NM
Incident ID	NAB1515234386
Source & Description of Activities	Sampling
Expected Duration for Activities	1 Day 10.23.2023
Env Consultant	Ensolum
Contractor	NA
Sampling Notification Required	Yes
Surface Owner	SLO

Site Name	Remuda 4-24-20

Location	A-04-24S-30E; Eddy County, NM
Incident ID	nAPP2233351770
Source & Description of Activities	Sampling
Expected Duration for Activities	1 Day 10.23.2023
Env Consultant	Ensolum
Contractor	NA
Sampling Notification Required	Yes
Surface Owner	BLM

Site Name	PLU CVX JV BS 008H
Location	N-14-25S-30E; Eddy County, NM
Incident ID	nAB1602154960
Source & Description of Activities	Sampling
Expected Duration for Activities	1 Day 10.24.2023
Env Consultant	Ensolum
Contractor	Tex Mex
Sampling Notification Required	Yes
Surface Owner	BLM

Site Name	Poker Lake Unit 315H
Location	P-24-24S-30E; Eddy County, NM
Incident ID	nAPP2324233432
Source & Description of Activities	Sampling
Expected Duration for Activities	3 Days 10.25.23-10.27.23
Env Consultant	Ensolum
Contractor	Tex Mex
Sampling Notification Required	Yes
Surface Owner	BLM

Thank you,

Melanie Collins

XTO ENERGY

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432-556-3756

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District III
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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 284637

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 284637
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. A reclamation report will need to be submitted and inlcude: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/11/2024
bhall	Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable. All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include:An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures of revegetation.	3/11/2024
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	3/11/2024