



May 19, 2026

New Mexico Oil Conservation Division

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

**Re: Reclamation Report
Poker Lake Unit 224
Incident Number nAPP2310050120
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc (XTO), has prepared the following *Reclamation Report* for the Poker Lake Unit 224 (Site). This *Reclamation Report* documents the Site history, reclamation activities completed to date, and proposes a vegetation monitoring plan.

BACKGROUND

The Site is located in Unit H, Section 7, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.23536°, -103.91457°) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land.

On April 4, 2023, corrosion of a flow line caused a release of 2.08 barrels (bbls) of crude oil and 12.8 bbls of produced water onto the surrounding pasture. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 0.11 bbls of crude oil and 0.65 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Release Notification Form C-141 (Form C-141) on April 10, 2023. The release was assigned Incident Number nAPP2310050120.

Delineation and excavation of impacted soil was completed at the Site between June 6 and July 19, 2023. The final excavation measured approximately 1,394 square feet. A total of approximately 258 cubic yards of impacted soil were removed during the excavation activities. Based on the delineation and excavation soil sample analytical results, a *Closure Request* was submitted to the NMOCD on August 31, 2023. The NMOCD approved the *Closure Request* on January 24, 2024. Additional details regarding the release, Site Characterization, delineation and excavation activities, and soil sample analytical results can be referenced in the approved *Closure Request* attached as an appendix in this report. Remediation of the release was completed in accordance with Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

RECLAMATION ACTIVITIES

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

XTO Energy, Inc
Reclamation Report
Poker Lake Unit 224

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

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

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

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

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

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

VEGETATION MONITORING

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

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

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

RECLAMATION APPROVAL REQUEST

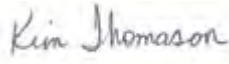
The approved August 31, 2023, *Closure Request* is included in Appendix C. Based on the reclamation activities completed to date and proposed vegetation monitoring plan described above, XTO respectfully

XTO Energy, Inc
Reclamation Report
Poker Lake Unit 224

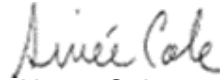
requests approval of this *Reclamation Report* and a status update to *Reclamation Report Approved, Pending submission of Re-Vegetation Report* for Incident nAPP2310050120.

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

Sincerely,
Ensolum, LLC



Kim Thomason
Senior Technician



Aimee Cole
Senior Managing Scientist

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

Appendices:



Figure 1 Reclamation Area
Table 1 Backfill Soil Sample Analytical Results
Appendix A Laboratory Analytical Report & Chain of Custody Documentation
Appendix B Photographic Log
Appendix C August 31, 2023, *Closure Request*

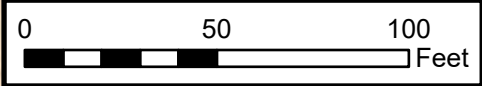


FIGURES

Document Path: C:\Users\Paier.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure3 - Carlsbad\XTO Energy, Inc\030556638 - Poker Lake Unit 224.aprx

Legend

-  Reclamation Area
-  Excavation Extent



Source: Environmental Systems Research Institute (ESRI)

Reclamation Area

XTO Energy, Inc.
 Poker Lake Unit 224
 Incident Number: NAPP2310050120
 Unit H, Section 7, T24S, R30E
 Eddy County, New Mexico

FIGURE

1



TABLES



TABLE 1 BACKFILL SOIL SAMPLE ANALYTICAL RESULTS Poker Lake Unit 224 XTO Energy, Inc. Eddy County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclamation Requirements (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Backfill Soil Sample										
BF01	6/20/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A

Laboratory Analytical Reports & Chain of Custody Documentation



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

June 27, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 224 - SPILLS

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/23/2025	Sampling Date:	06/20/2025
Reported:	06/27/2025	Sampling Type:	Soil
Project Name:	PLU 224 - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558638	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.23536-103.91457		

Sample ID: BF 01 0' (H253751-01)

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

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/25/2025	ND	400	100	400	7.69	

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

Surrogate: 1-Chlorooctane 82.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.9 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc
Poker Lake Unit 224
nAPP2310050120

45°NE (T) • 32.235316, -103.914716 ±4m ▲ 956m



Sample area

PLU 224
20 Jun 2025, 11:04:48 AM

357°N (T) • 32.23566, -103.914872 ±1m ▲ 982m



Sample area

PLU 224
20 Jun 2025, 11:05:02 AM

Photograph: 1 Date: 6/20/2025
Description: Backfilled Excavation Area
View: Northeast

Photograph: 2 Date: 6/20/2025
Description: Backfilled Excavation Area
View: North

164°SE (T) • 32.23566, -103.914872 ±7m ▲ 982m



Sample area

PLU 224
20 Jun 2025, 11:05:20 AM

273°W (T) • 32.23566, -103.914872 ±1m ▲ 982m



Sample area

PLU 224
20 Jun 2025, 11:05:35 AM

Photograph: 3 Date: 6/20/2025
Description: Backfilled Excavation Area
View: Southeast

Photograph: 4 Date: 6/20/2025
Description: Backfilled Excavation Area
View: West



APPENDIX C

August 31, 2023, *Closure Request*



August 31, 2023

New Mexico Oil Conservation Division

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

**Re: Closure Request
Poker Lake Unit 224
Incident Number NAPP2310050120
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Closure Request* to document remedial actions completed at the Poker Lake Unit 224 (Site). The purpose of the remedial activities was to address impacted soil following a release of crude oil and produced water. The following *Closure Request* describes assessment activities, excavation of impacted soil, and confirmation sampling result and respectfully requests no further action for Incident Number NAPP2310050120.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit H, Section 7, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.23536°, -103.91457°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management.

On April 4, 2023, corrosion of a flow line caused a release of 2.08 barrels (bbls) of crude oil and 12.8 bbls of produced water to the well pad. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 0.11 bbls of crude oil and 0.65 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Release Notification Form C-141 (Form C-141) on April 10, 2023. The release was assigned Incident Number NAPP2310050120.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). 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 New Mexico Office of the State Engineer (NMOSE) well C-02108, located less than ½-mile south of the Site. The groundwater well has a reported depth to groundwater of 186 feet bgs and total depth of 200 feet bgs. Additionally, NMOSE well C-4526 was drilled to a total depth of 105 feet bgs

north of the Site and was determined to be dry, which corroborates the reasonably estimated depth to water beneath the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site 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, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On June 6, 2023, Ensolum was onsite to assess the release extent based on information provided on the Form C-141 and visual observations. Soil samples SS01 through SS03 were collected within the release extent at approximately 0.5 feet bgs. Soil from the surface locations was field screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively.

Ensolum returned to the Site on June 23, 2023, to advance a pothole (PH03), in the vicinity of soil sample SS03, to a total depth of 5 feet bgs. Two soil samples were collected from pothole PH03 at approximately 3 feet and 5 feet bgs with a backhoe for laboratory analysis. Field screening results and observations for the pothole were logged on lithologic/soil sampling log, which is included in Appendix B. The delineation soil sample locations were mapped utilizing a hand-held global positioning system (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix C.

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

Laboratory analytical results for the delineation soil samples collected from soil samples SS01 through SS03 and pothole PH03 at 3 feet bgs indicated TPH concentrations exceeded the Closure Criteria. The concentrations identified in the terminal depth sample for pothole PH03, collected at 5 feet bgs, were

compliant with the Closure Criteria and successfully defined the vertical extent of impacted soil. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

EXCAVATION ACTIVITIES

Based on the laboratory analytical results from soil samples within the release extent, excavation activities appeared warranted to address TPH impacts to soil. As such, Ensolum was onsite between June 22 and June 27, 2023 to excavate TPH-impacted soil. Excavation activities were completed utilizing a hydrovac, a backhoe, and transport vehicles. The excavation was directed based on previous soil sample analytical data and field screening for VOCs and chloride. Photographic documentation was completed during excavation activities and a photographic log 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 floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS07 were collected from the floor of the excavation at a depth of 4 feet bgs. Composite soil samples SW01 through SW07 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 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.

Laboratory analytical results for excavation floor samples FS01 and FS02 indicated TPH-GRO and TPH-DRO combined concentrations exceeded the Closure Criteria. Laboratory analytical results for excavation sidewall soil samples SW01 and SW03 indicated the TPH and chloride concentrations, respectively, exceeded the reclamation requirement. All other confirmation floor and sidewall soil samples indicated COC concentrations were compliant with the Closure Criteria and reclamation requirement.

Based on laboratory analytical results for excavation floor soil samples FS01 and FS02 and excavation sidewall soil samples SW01 and SW02 were further excavated and resampled. The floor was excavated in the vicinity of soil samples FS01 and FS02 to a total depth of 5 feet bgs. Laboratory analytical results for the resampled excavation floor and sidewall samples indicated all COCs were compliant with the Closure Criteria and/or reclamation requirement. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix D.

The excavation area measured approximately 1,394 square feet. A total of approximately 258 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Carlsbad, New Mexico.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the April 2023 release of crude oil and produced water. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. XTO will backfill the excavation with topsoil material purchased locally and recontour the Site to match pre-existing site conditions. The area will be seeded this Fall with a BLM-approved seed mixture. XTO believes remedial actions completed at the Site have been protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2310050120.

Poker Lake Unit 224
Closure Request
XTO Energy, Inc.



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

Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "Daniel R. Moir".

Daniel R. Moir, PG
Senior Managing Geologist

A handwritten signature in black ink, appearing to read "Ashley L. Ager".

Ashley L. Ager, M.S., P.G.
Program Director

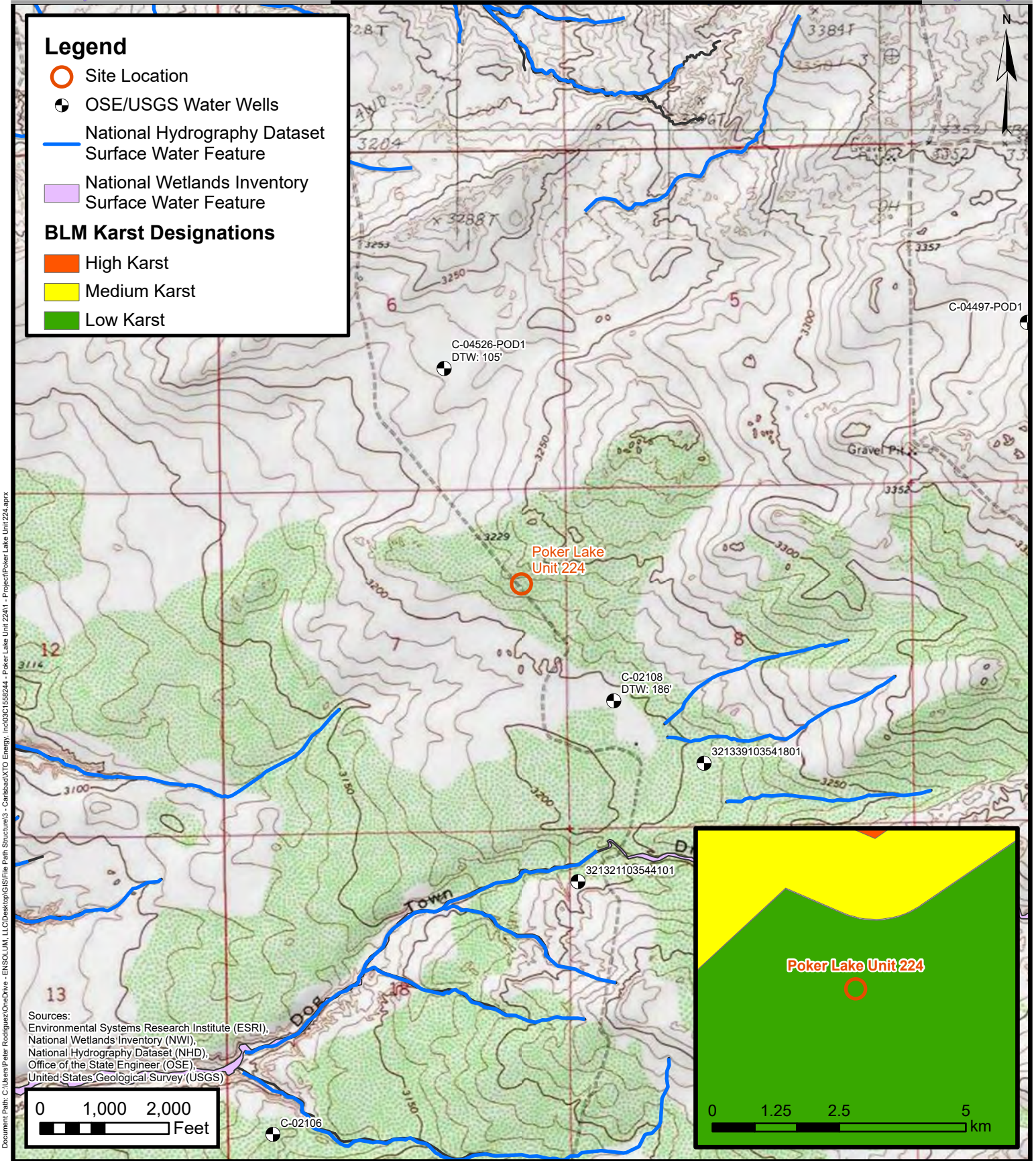
cc: Garrett Green, XTO
Shelby Pennington, XTO
Bureau of Land Management

Appendices:

- Figure 1 Site Location 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



Figures



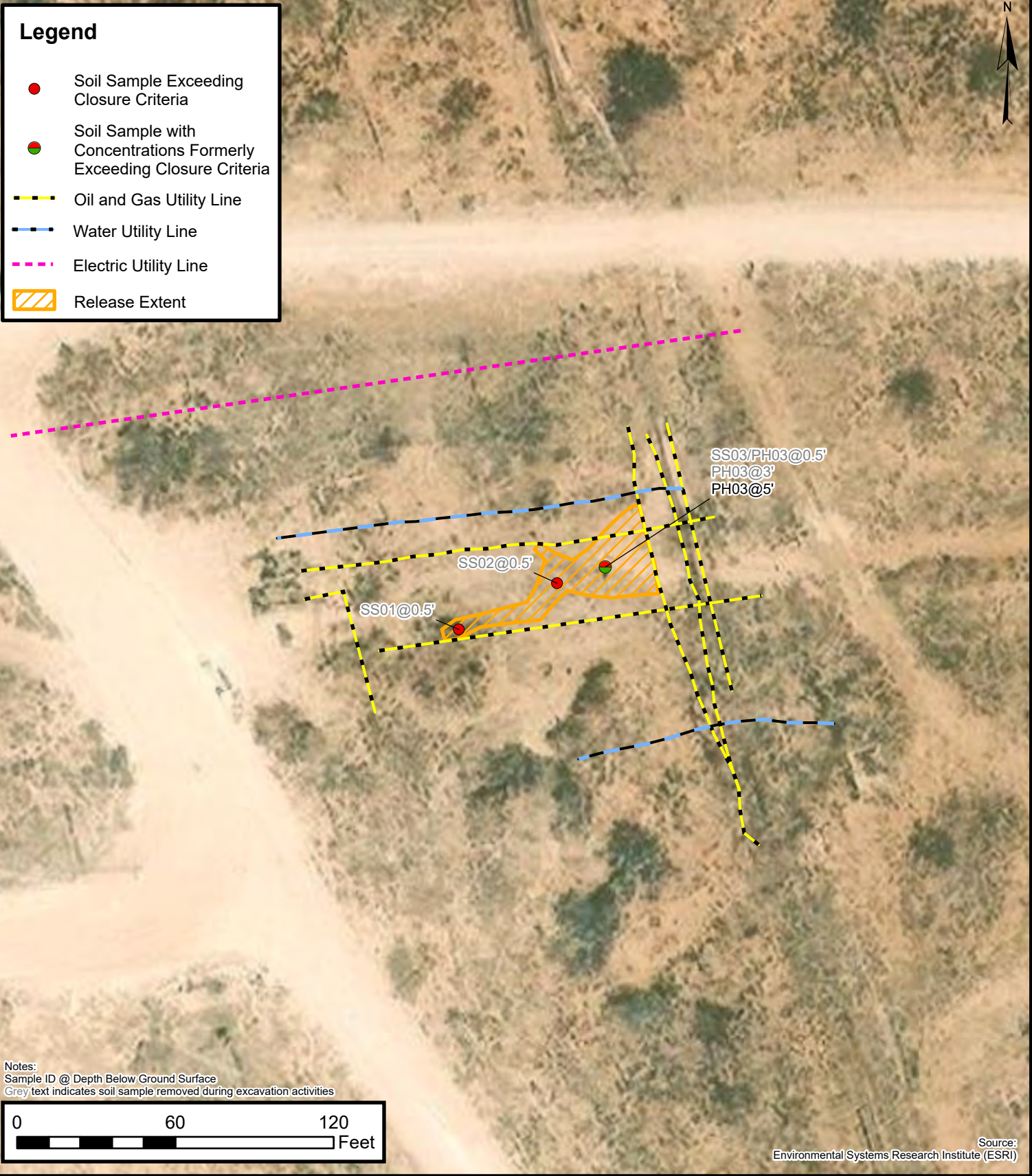
Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\Map Structure\3 - Carlsbad\XTO Energy, Inc\03155924 - Poker Lake Unit 2241 - Project\Poker Lake Unit 224.aprx



Site Receptor Map

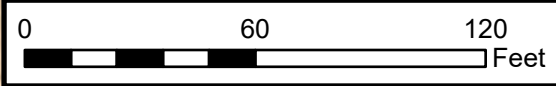
XTO Energy, Inc
 Poker Lake Unit 224
 Incident Number: NAPP2310050120
 Unit H, Section 7, T24S, R30E
 Eddy County, New Mexico

FIGURE
1



Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\Map Path Structure3 - Cambada\XTO Energy, Inc\03C1559244 - Poker Lake Unit 22411 - Project\Poker Lake Unit 224.aprx

Notes:
Sample ID @ Depth Below Ground Surface
Grey text indicates soil sample removed during excavation activities



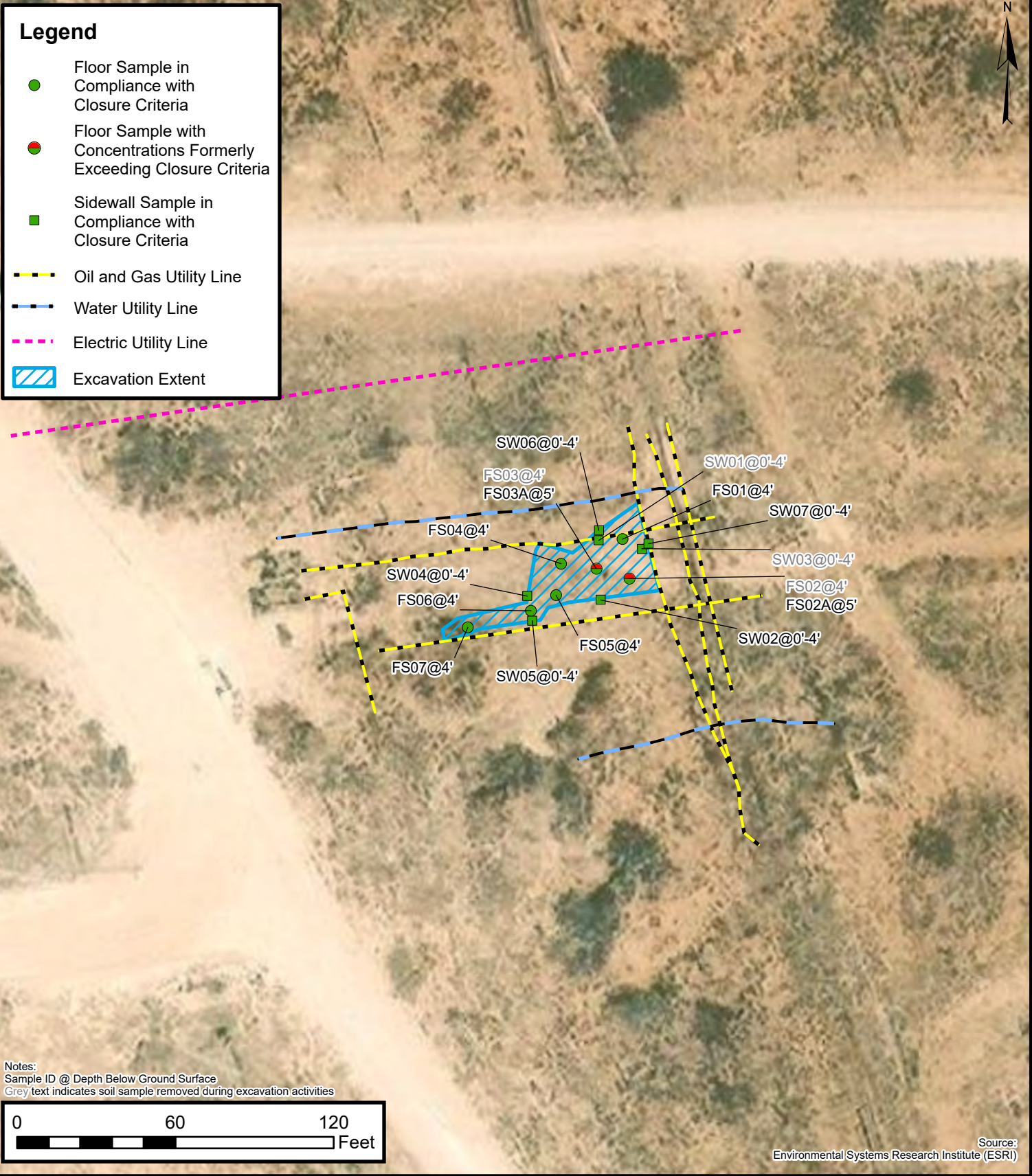
Source:
Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

XTO Energy, Inc
 Poker Lake Unit 224
 Incident Number: NAPP2310050120
 Unit H, Section 7, T24S, R30E
 Eddy County, New Mexico

FIGURE
2



Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\Map Path Structure3 - Candado\XTO Energy, Inc\03C1559244 - Poker Lake Unit 224\1 - Project\Poker Lake Unit 224.aprx



Excavation Soil Sample Locations

XTO Energy, Inc
 Poker Lake Unit 224
 Incident Number: NAPP2310050120
 Unit H, Section 7, T24S, R30E
 Eddy County, New Mexico

FIGURE
3



Table

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Poker Lake Unit 224
 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)
NMOCDC Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	06/06/2023	0.5	<0.00200	<0.00399	<50.0	2,200	339	2,200	2,540	8,530
SS02	06/06/2023	0.5	<0.0495	12.4	594	9,040	1,270	9,630	10,900	10,000
SS03	06/06/2023	0.5	<0.0504	10.5	738	10,800	1,550	11,540	13,100	10,700
PH03	06/23/2023	3	0.183	59.4	2,930	7,160	<249	10,090	10,100	5,940
PH03	06/23/2023	5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	7,380
Excavation Confirmation Soil Samples										
FS01	06/27/2023	4	<0.00200	<0.00400	<50.2	213	<50.2	213	213	3,360
FS02	06/27/2023	4	<0.00202	0.0186	<50.0	2,400	<50.0	2,400	2,400	6,050
FS02A	07/19/2023	5	<0.00200	<0.00401	<49.6	265	<49.6	265	265	5,200
FS03	06/27/2023	4	<0.00200	0.00964	<50.1	1,210	<50.1	1,210	1,210	4,740
FS03A	07/19/2023	5	<0.00199	<0.00398	<49.5	215	<49.5	215	215	1,500
FS04	06/27/2023	4	<0.00199	0.0119	<49.8	582	<49.8	582	582	1,690
FS05	06/27/2023	4	<0.00198	<0.00396	<49.9	254	<49.9	254	254	2,770
FS06	06/27/2023	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	2,060
FS07	06/27/2023	4	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	108
SW01	06/27/2023	0 - 4	<0.00202	<0.00403	<49.9	65.4	<49.9	65.4	65.4	724
SW02	06/27/2023	0 - 4	<0.00198	0.0431	<50.0	<50.0	<50.0	<50.0	<50.0	295
SW03	06/27/2023	0 - 4	<0.00200	0.0381	<49.9	104	<49.9	104	104	457
SW04	06/27/2023	0 - 4	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	133
SW05	06/27/2023	0 - 4	<0.00198	<0.00396	<49.8	59.7	<49.8	59.7	59.7	285
SW06	07/19/2023	0 - 4	<0.00198	<0.00396	65.4	<50.4	<50.4	65.4	65.4	67.1
SW07	07/19/2023	0 - 4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	33.1

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCDC: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Well Log Records



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)					(NAD83 UTM in meters)			
Well Tag	POD Number	(quarters are smallest to largest)	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02108		1	3	08	24S	30E	602702	3566487*	

Driller License:	Driller Company:	
Driller Name: UNKNOWN		
Drill Start Date:	Drill Finish Date: 12/31/1963	Plug Date:
Log File Date:	PCW Rev Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield: 16 GPM
Casing Size: 7.00	Depth Well: 200 feet	Depth Water: 186 feet

*UTM location was derived from PLSS - see Help

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

8/29/23 1:12 PM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

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

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 06/30/17)			
FILE NO.	C-4526	POD NO.	1	TRN NO.	692109		
LOCATION	Expl	24S.30E.6.414	WELL TAG ID NO.	0210010201	PAGE 1 OF 2		

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	SAND, poorly graded, fine-very grained, Reddish-brown, dry	Y ✓ N	
	4	12	8	CALICHE, poorly-mod. consolidated, tan-off white, dry	Y ✓ N	
	12	19	7	SAND, poorly graded, fine-very grained, some caliche gravel, Tan, dry	Y ✓ N	
	19	24	5	SAND, poorly graded, fine-very grained, some caliche gravel, Light- Brown, dry	Y ✓ N	
	24	72	48	SAND, poorly graded, fine-very grained, Reddish Brown, moist	Y ✓ N	
	72	92	20	SAND, poorly graded, fine-very grained, some silt, Reddish Brown, moist	Y ✓ N	
	92	102	10	SILTY SAND, poorly graded, fine-very grained, Reddish Brown, moist	Y ✓ N	
	102	105	3	SILTY SAND, poorly graded, fine-very grained, Reddish Brown, dry	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Jackie D. Atkins _____ DATE


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

OSE DTI JUN 10 2021 4:27



APPENDIX B

Lithologic / Soil Sampling Log

							Sample Name: PH03		Date: 6/23/2023	
							Site Name: PLU 224			
							Incident Number: NAPP2310050120			
							Job Number: 03C1558244			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: CW		Method: backhoe	
Coordinates:							Hole Diameter:		Total Depth: 5 ft bgs	
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. No correction factors included.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
m	8,685	373	Y	PH03	3'	0	SP	SAND, very fine-grained, with silt, reddish-brown, moist, staining and odor present SAA SAA SAA SAA no odor or staining present TD - 5 feet bgs		
						1	SP			
m	6,820	2,083	Y			2	SP			
m	7,302	2,420	Y			3	SP			
m	7,421	419	Y			4	SP			
m	9,424	290	N	PH03	5"	5	SP			
						6				
						7				
						8				
						9				
						10				
						11				
						12				



APPENDIX C
Photographic Log



Photographic Log
XTO Energy, Inc
Poker Lake Unit 224
Incident Number NAPP2310050120

Date & Time: Tue, Jun 06, 2023 at 11:42:21 MDT
Position: +032.235375° / -103.914625° (±15.7ft)
Altitude: 3235ft (±10.8ft)
Datum: WGS-84
Azimuth/Bearing: 016° N44E 0.293mils True (±1.2°)
Elevation Angle: -31.3°
Horizon Angle: -00.0°
Zoom: 1.0X
stairing
Marina O Dell



Photograph 1 Date: 6/6/2023
Description: Release point area, replaced flowline.
View: North

Date & Time: Tue, Jun 06, 2023 at 11:42:42 MDT
Position: +032.235377° / -103.914625° (±15.7ft)
Altitude: 3233ft (±10.9ft)
Datum: WGS-84
Azimuth/Bearing: 101° N39E 0.293mils True (±1.2°)
Elevation Angle: -06°
Horizon Angle: -00.0°
Zoom: 0.5X
stairing
Marina O Dell



Photograph 2 Date: 6/6/2023
Description: Release extent area
View: Northeast

Date & Time: Mon, Jun 26, 2023 at 14:12:37 MDT
Position: +032.235339° / -103.914756° (±39.3ft)
Altitude: 3222ft (±21.3ft)
Datum: WGS-84
Azimuth/Bearing: 045° N45E 0.800mils True (±1.6°)
Elevation Angle: -26.4°
Horizon Angle: -01.3°
Zoom: 1.0X
PLU 224, excavation along target line at west end of release, looking northeast



Photograph 3 Date: 6/26/2023
Description: Hydrovaccing impacts near subsurface lines

Date & Time: Wed, Jul 19, 2023 at 13:53:37 MDT
Position: +032.235308° / -103.914739° (±16.5ft)
Altitude: 3234ft (±9.6ft)
Datum: WGS-84
Azimuth/Bearing: 042° N42E 0.747mils True (±1.4°)
Elevation Angle: -07.1°
Horizon Angle: -02.1°
Zoom: 1.0X
PLU 224, excavation looking northeast



Photograph 4 Date: 7/19/2023
Description: Final excavation extent
View: East



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/14/2023 3:20:29 PM

JOB DESCRIPTION

Poker Lake Unit 224
 SDG NUMBER 03C1558244

JOB NUMBER

890-4788-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
6/14/2023 3:20:29 PM

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

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Client: Ensolum
Project/Site: Poker Lake Unit 224

Laboratory Job ID: 890-4788-1
SDG: 03C1558244

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Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4788-1
SDG: 03C1558244

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4788-1
SDG: 03C1558244

Job ID: 890-4788-1

Laboratory: Eurofins Carlsbad**Narrative****Job Narrative
890-4788-1****Receipt**

The samples were received on 6/6/2023 4:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4788-1), SS02 (890-4788-2) and SS03 (890-4788-3).

GC VOA

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-55037 and analytical batch 880-55385 recovered outside control limits for the following analytes: Benzene and Toluene. These analytes were biased high in the LCSD however, they were acceptable in the LCS and only one is required by method; therefore, the data have been reported.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: SS02 (890-4788-2) and SS03 (890-4788-3). Elevated reporting limits (RLs) are provided.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS02 (890-4788-2) and SS03 (890-4788-3). 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 laboratory control sample (LCS) associated with preparation batch 880-55014 and analytical batch 880-55084 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS02 (890-4788-2), SS03 (890-4788-3), (MB 880-55014/1-A), (880-29167-A-22-C MS) and (880-29167-A-22-D MSD). 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 224

Job ID: 890-4788-1
SDG: 03C1558244

Client Sample ID: SS01

Lab Sample ID: 890-4788-1

Date Collected: 06/06/23 11:45

Matrix: Solid

Date Received: 06/06/23 16:09

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200	mg/Kg		06/08/23 13:04	06/13/23 22:12	1
Toluene	<0.00200	U **	0.00200	mg/Kg		06/08/23 13:04	06/13/23 22:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/08/23 13:04	06/13/23 22:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/08/23 13:04	06/13/23 22:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/08/23 13:04	06/13/23 22:12	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/08/23 13:04	06/13/23 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	06/08/23 13:04	06/13/23 22:12	1
1,4-Difluorobenzene (Surr)	106		70 - 130	06/08/23 13:04	06/13/23 22:12	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			06/14/23 09:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2540		50.0	mg/Kg			06/12/23 14:43	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		06/08/23 09:17	06/10/23 04:33	1
Diesel Range Organics (Over C10-C28)	2200		50.0	mg/Kg		06/08/23 09:17	06/10/23 04:33	1
Oil Range Organics (Over C28-C36)	339		50.0	mg/Kg		06/08/23 09:17	06/10/23 04:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	06/08/23 09:17	06/10/23 04:33	1
o-Terphenyl	117		70 - 130	06/08/23 09:17	06/10/23 04:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8530		50.2	mg/Kg			06/09/23 13:16	10

Client Sample ID: SS02

Lab Sample ID: 890-4788-2

Date Collected: 06/06/23 11:50

Matrix: Solid

Date Received: 06/06/23 16:09

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0495	U **	0.0495	mg/Kg		06/08/23 13:04	06/13/23 22:32	25
Toluene	0.648	**	0.0495	mg/Kg		06/08/23 13:04	06/13/23 22:32	25
Ethylbenzene	1.64		0.0495	mg/Kg		06/08/23 13:04	06/13/23 22:32	25
m-Xylene & p-Xylene	5.80		0.0990	mg/Kg		06/08/23 13:04	06/13/23 22:32	25
o-Xylene	4.28		0.0495	mg/Kg		06/08/23 13:04	06/13/23 22:32	25
Xylenes, Total	10.1		0.0990	mg/Kg		06/08/23 13:04	06/13/23 22:32	25

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4788-1
SDG: 03C1558244

Client Sample ID: SS02

Lab Sample ID: 890-4788-2

Date Collected: 06/06/23 11:50

Matrix: Solid

Date Received: 06/06/23 16:09

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	06/08/23 13:04	06/13/23 22:32	25
1,4-Difluorobenzene (Surr)	70		70 - 130	06/08/23 13:04	06/13/23 22:32	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	12.4		0.0990	mg/Kg			06/14/23 09:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	10900		249	mg/Kg			06/12/23 14:43	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	594	*-	249	mg/Kg		06/08/23 09:17	06/10/23 03:49	5
Diesel Range Organics (Over C10-C28)	9040		249	mg/Kg		06/08/23 09:17	06/10/23 03:49	5
Oil Range Organics (Over C28-C36)	1270		249	mg/Kg		06/08/23 09:17	06/10/23 03:49	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	06/08/23 09:17	06/10/23 03:49	5
o-Terphenyl	150	S1+	70 - 130	06/08/23 09:17	06/10/23 03:49	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10000		99.4	mg/Kg			06/09/23 13:22	20

Client Sample ID: SS03

Lab Sample ID: 890-4788-3

Date Collected: 06/06/23 11:55

Matrix: Solid

Date Received: 06/06/23 16:09

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0504	U *+	0.0504	mg/Kg		06/08/23 13:04	06/13/23 22:52	25
Toluene	1.10	*+	0.0504	mg/Kg		06/08/23 13:04	06/13/23 22:52	25
Ethylbenzene	1.58		0.0504	mg/Kg		06/08/23 13:04	06/13/23 22:52	25
m-Xylene & p-Xylene	5.43		0.101	mg/Kg		06/08/23 13:04	06/13/23 22:52	25
o-Xylene	2.37		0.0504	mg/Kg		06/08/23 13:04	06/13/23 22:52	25
Xylenes, Total	7.80		0.101	mg/Kg		06/08/23 13:04	06/13/23 22:52	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130	06/08/23 13:04	06/13/23 22:52	25
1,4-Difluorobenzene (Surr)	94		70 - 130	06/08/23 13:04	06/13/23 22:52	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	10.5		0.101	mg/Kg			06/14/23 09:58	1

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Client Sample Results

Client: Ensolum
 Project/Site: Poker Lake Unit 224

Job ID: 890-4788-1
 SDG: 03C1558244

Client Sample ID: SS03

Lab Sample ID: 890-4788-3

Date Collected: 06/06/23 11:55

Matrix: Solid

Date Received: 06/06/23 16:09

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	13100		250	mg/Kg			06/12/23 14:43	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	738	*-	250	mg/Kg		06/08/23 09:17	06/10/23 04:11	5
Diesel Range Organics (Over C10-C28)	10800		250	mg/Kg		06/08/23 09:17	06/10/23 04:11	5
Oil Range Organics (Over C28-C36)	1550		250	mg/Kg		06/08/23 09:17	06/10/23 04:11	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130			06/08/23 09:17	06/10/23 04:11	5
o-Terphenyl	180	S1+	70 - 130			06/08/23 09:17	06/10/23 04:11	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10700		101	mg/Kg			06/09/23 19:28	20

Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4788-1
SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-4781-A-1-F MS	Matrix Spike	93	92
890-4781-A-1-G MSD	Matrix Spike Duplicate	108	102
890-4788-1	SS01	94	106
890-4788-2	SS02	138 S1+	70
890-4788-3	SS03	167 S1+	94
LCS 880-55037/1-A	Lab Control Sample	97	105
LCSD 880-55037/2-A	Lab Control Sample Dup	96	102
MB 880-55037/5-A	Method Blank	90	111
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-29167-A-22-C MS	Matrix Spike	137 S1+	144 S1+
880-29167-A-22-D MSD	Matrix Spike Duplicate	143 S1+	147 S1+
890-4788-1	SS01	106	117
890-4788-2	SS02	127	150 S1+
890-4788-3	SS03	155 S1+	180 S1+
LCS 880-55014/2-A	Lab Control Sample	89	101
LCSD 880-55014/3-A	Lab Control Sample Dup	93	108
MB 880-55014/1-A	Method Blank	0.02 S1-	0.03 S1-
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4788-1
SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-55037/5-A
Matrix: Solid
Analysis Batch: 55385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55037

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/08/23 13:04	06/13/23 14:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/08/23 13:04	06/13/23 14:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/08/23 13:04	06/13/23 14:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/08/23 13:04	06/13/23 14:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/08/23 13:04	06/13/23 14:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/08/23 13:04	06/13/23 14:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	06/08/23 13:04	06/13/23 14:24	1
1,4-Difluorobenzene (Surr)	111		70 - 130	06/08/23 13:04	06/13/23 14:24	1

Lab Sample ID: LCS 880-55037/1-A
Matrix: Solid
Analysis Batch: 55385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1164		mg/Kg		116	70 - 130
Toluene	0.100	0.1157		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1040		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.1933		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09140		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-55037/2-A
Matrix: Solid
Analysis Batch: 55385

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55037

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1440	*+	mg/Kg		144	70 - 130	21	35
Toluene	0.100	0.1378	*+	mg/Kg		138	70 - 130	17	35
Ethylbenzene	0.100	0.1158		mg/Kg		116	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.2210		mg/Kg		111	70 - 130	13	35
o-Xylene	0.100	0.1050		mg/Kg		105	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-4781-A-1-F MS
Matrix: Solid
Analysis Batch: 55385

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 55037

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U **	0.101	0.1061		mg/Kg		105	70 - 130
Toluene	<0.00199	U **	0.101	0.1028		mg/Kg		102	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4788-1
SDG: 03C1558244

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

Lab Sample ID: 890-4781-A-1-F MS
Matrix: Solid
Analysis Batch: 55385

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 55037

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00199	U	0.101	0.07489		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1372	F1	mg/Kg		68	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.06696	F1	mg/Kg		66	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-4781-A-1-G MSD
Matrix: Solid
Analysis Batch: 55385

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 55037

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00199	U **	0.100	0.1063		mg/Kg		106	70 - 130	0	35
Toluene	<0.00199	U **	0.100	0.1059		mg/Kg		106	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.100	0.08181		mg/Kg		82	70 - 130	9	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1631		mg/Kg		81	70 - 130	17	35
o-Xylene	<0.00199	U F1	0.100	0.07958		mg/Kg		79	70 - 130	17	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-55014/1-A
Matrix: Solid
Analysis Batch: 55084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55014

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/08/23 09:17	06/09/23 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/08/23 09:17	06/09/23 19:43	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/08/23 09:17	06/09/23 19:43	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	0.02	S1-	70 - 130	06/08/23 09:17	06/09/23 19:43	1
o-Terphenyl	0.03	S1-	70 - 130	06/08/23 09:17	06/09/23 19:43	1

Lab Sample ID: LCS 880-55014/2-A
Matrix: Solid
Analysis Batch: 55084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55014

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	612.5	*-	mg/Kg		61	70 - 130
Diesel Range Organics (Over C10-C28)	1000	788.9		mg/Kg		79	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4788-1
SDG: 03C1558244

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

Lab Sample ID: LCS 880-55014/2-A
Matrix: Solid
Analysis Batch: 55084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55014

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	89		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-55014/3-A
Matrix: Solid
Analysis Batch: 55084

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55014

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	634.6	*-	mg/Kg		63	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)	1000	839.7		mg/Kg		84	70 - 130	6	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	93		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 880-29167-A-22-C MS
Matrix: Solid
Analysis Batch: 55084

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 55014

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	1000	1019		mg/Kg		102	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1143		mg/Kg		114	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	144	S1+	70 - 130

Lab Sample ID: 880-29167-A-22-D MSD
Matrix: Solid
Analysis Batch: 55084

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 55014

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	998	1182		mg/Kg		118	70 - 130	15	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1185		mg/Kg		119	70 - 130	4	20	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	143	S1+	70 - 130
o-Terphenyl	147	S1+	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4788-1
SDG: 03C1558244

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-55022/1-A
Matrix: Solid
Analysis Batch: 55120

Client Sample ID: Method Blank
Prep Type: Soluble

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

Lab Sample ID: LCS 880-55022/2-A
Matrix: Solid
Analysis Batch: 55120

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-55022/3-A
Matrix: Solid
Analysis Batch: 55120

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

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

Lab Sample ID: 890-4786-A-2-C MS
Matrix: Solid
Analysis Batch: 55120

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	284		249	538.7		mg/Kg		102	90 - 110

Lab Sample ID: 890-4786-A-2-D MSD
Matrix: Solid
Analysis Batch: 55120

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	284		249	535.5		mg/Kg		101	90 - 110	1	20

Lab Sample ID: MB 880-55020/1-A
Matrix: Solid
Analysis Batch: 55162

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/09/23 17:00	1

Lab Sample ID: LCS 880-55020/2-A
Matrix: Solid
Analysis Batch: 55162

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.4		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-55020/3-A
Matrix: Solid
Analysis Batch: 55162

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	254.4		mg/Kg		102	90 - 110	1	20

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QC Sample Results

Client: Ensolum
 Project/Site: Poker Lake Unit 224

Job ID: 890-4788-1
 SDG: 03C1558244

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-29276-A-5-B MS
Matrix: Solid
Analysis Batch: 55162

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	91.2		249	349.5		mg/Kg		104	90 - 110

Lab Sample ID: 880-29276-A-5-C MSD
Matrix: Solid
Analysis Batch: 55162

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	91.2		249	350.2		mg/Kg		104	90 - 110	0	20

- 1
- 2
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- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4788-1
SDG: 03C1558244

GC VOA

Prep Batch: 55037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Total/NA	Solid	5035	
890-4788-2	SS02	Total/NA	Solid	5035	
890-4788-3	SS03	Total/NA	Solid	5035	
MB 880-55037/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-55037/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-55037/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4781-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
890-4781-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 55385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Total/NA	Solid	8021B	55037
890-4788-2	SS02	Total/NA	Solid	8021B	55037
890-4788-3	SS03	Total/NA	Solid	8021B	55037
MB 880-55037/5-A	Method Blank	Total/NA	Solid	8021B	55037
LCS 880-55037/1-A	Lab Control Sample	Total/NA	Solid	8021B	55037
LCSD 880-55037/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	55037
890-4781-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	55037
890-4781-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	55037

Analysis Batch: 55494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Total/NA	Solid	Total BTEX	
890-4788-2	SS02	Total/NA	Solid	Total BTEX	
890-4788-3	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 55014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Total/NA	Solid	8015NM Prep	
890-4788-2	SS02	Total/NA	Solid	8015NM Prep	
890-4788-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-55014/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-55014/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-55014/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29167-A-22-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-29167-A-22-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 55084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Total/NA	Solid	8015B NM	55014
890-4788-2	SS02	Total/NA	Solid	8015B NM	55014
890-4788-3	SS03	Total/NA	Solid	8015B NM	55014
MB 880-55014/1-A	Method Blank	Total/NA	Solid	8015B NM	55014
LCS 880-55014/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	55014
LCSD 880-55014/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	55014
880-29167-A-22-C MS	Matrix Spike	Total/NA	Solid	8015B NM	55014
880-29167-A-22-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	55014

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QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4788-1
SDG: 03C1558244

GC Semi VOA

Analysis Batch: 55342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Total/NA	Solid	8015 NM	
890-4788-2	SS02	Total/NA	Solid	8015 NM	
890-4788-3	SS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 55020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-3	SS03	Soluble	Solid	DI Leach	
MB 880-55020/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-55020/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-55020/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29276-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-29276-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 55022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Soluble	Solid	DI Leach	
890-4788-2	SS02	Soluble	Solid	DI Leach	
MB 880-55022/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-55022/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-55022/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4786-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4786-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 55120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-1	SS01	Soluble	Solid	300.0	55022
890-4788-2	SS02	Soluble	Solid	300.0	55022
MB 880-55022/1-A	Method Blank	Soluble	Solid	300.0	55022
LCS 880-55022/2-A	Lab Control Sample	Soluble	Solid	300.0	55022
LCSD 880-55022/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	55022
890-4786-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	55022
890-4786-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	55022

Analysis Batch: 55162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4788-3	SS03	Soluble	Solid	300.0	55020
MB 880-55020/1-A	Method Blank	Soluble	Solid	300.0	55020
LCS 880-55020/2-A	Lab Control Sample	Soluble	Solid	300.0	55020
LCSD 880-55020/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	55020
880-29276-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	55020
880-29276-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	55020

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4788-1
SDG: 03C1558244

Client Sample ID: SS01

Lab Sample ID: 890-4788-1

Date Collected: 06/06/23 11:45

Matrix: Solid

Date Received: 06/06/23 16:09

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	55037	06/08/23 13:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55385	06/13/23 22:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55494	06/14/23 09:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55342	06/12/23 14:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	55014	06/08/23 09:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55084	06/10/23 04:33	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	55022	06/08/23 09:45	KS	EET MID
Soluble	Analysis	300.0		10			55120	06/09/23 13:16	CH	EET MID

Client Sample ID: SS02

Lab Sample ID: 890-4788-2

Date Collected: 06/06/23 11:50

Matrix: Solid

Date Received: 06/06/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	55037	06/08/23 13:04	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	55385	06/13/23 22:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55494	06/14/23 09:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55342	06/12/23 14:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	55014	06/08/23 09:17	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	55084	06/10/23 03:49	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	55022	06/08/23 09:45	KS	EET MID
Soluble	Analysis	300.0		20			55120	06/09/23 13:22	CH	EET MID

Client Sample ID: SS03

Lab Sample ID: 890-4788-3

Date Collected: 06/06/23 11:55

Matrix: Solid

Date Received: 06/06/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	55037	06/08/23 13:04	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	55385	06/13/23 22:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55494	06/14/23 09:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55342	06/12/23 14:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.010 g	10 mL	55014	06/08/23 09:17	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	55084	06/10/23 04:11	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	55020	06/08/23 09:43	KS	EET MID
Soluble	Analysis	300.0		20			55162	06/09/23 19:28	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 224

Job ID: 890-4788-1
SDG: 03C1558244

Laboratory: Eurofins Midland

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

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

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

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

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Method Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4788-1
SDG: 03C1558244

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 224

Job ID: 890-4788-1
SDG: 03C1558244

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4788-1	SS01	Solid	06/06/23 11:45	06/06/23 16:09	0.5'
890-4788-2	SS02	Solid	06/06/23 11:50	06/06/23 16:09	0.5'
890-4788-3	SS03	Solid	06/06/23 11:55	06/06/23 16:09	0.5'

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Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com page 1 of 1

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

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

ANALYSIS REQUEST



890-4788 Chain of Custody

Preservative Codes

None: NO DI Water: H₂O
Cool: Cool MeOH: Me
HCL: HC HNO₃: HN
H₂SO₄: H₂ NaOH: Na
H₃PO₄: HP
NaHSO₄: NABIS
Na₂S₂O₅: NASO₅
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	
							CHLORIDES (EPA: 300.0)	BTEX (8021)
SS01	S	6/6/2023	11:45	0.5'	G	1	X	X
SS02	S	6/6/2023	11:50	0.5'	G	1	X	X
SS03	S	6/6/2023	11:55	0.5'	G	1	X	X
NO								

Tacoma Morrissey:
tmorrissey@ensolum.com

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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
<i>[Signature]</i>	<i>[Signature]</i>	6/16/23 1542			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4788-1

SDG Number: 03C1558244

Login Number: 4788

List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4788-1

SDG Number: 03C1558244

Login Number: 4788

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum

601 N. Marienfeld St.
Suite 400

Midland, Texas 79701

Generated 7/3/2023 11:39:43 AM

JOB DESCRIPTION

Poker Lake Unit 224
SDG NUMBER 03C1558244

JOB NUMBER

890-4856-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
7/3/2023 11:39:43 AM

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

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Client: Ensolum
Project/Site: Poker Lake Unit 224

Laboratory Job ID: 890-4856-1
SDG: 03C1558244

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Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
SDG: 03C1558244

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
SDG: 03C1558244

Job ID: 890-4856-1

Laboratory: Eurofins Carlsbad**Narrative**

**Job Narrative
890-4856-1**

Receipt

The samples were received on 6/23/2023 3:07 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 5.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH03 (890-4856-1) and PH03 (890-4856-2).

GC VOA

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

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-56726/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH03 (890-4856-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-56726 and analytical batch 880-56652 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH03 (890-4856-1), PH03 (890-4856-2), (880-30102-A-1-E), (880-30102-A-1-F MS) and (880-30102-A-1-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-56386 and analytical batch 880-56440 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.



Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
SDG: 03C1558244

Client Sample ID: PH03

Lab Sample ID: 890-4856-1

Date Collected: 06/23/23 09:45

Matrix: Solid

Date Received: 06/23/23 15:07

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.183		0.0498	mg/Kg		06/29/23 08:40	06/29/23 20:27	25
Toluene	5.11		0.0498	mg/Kg		06/29/23 08:40	06/29/23 20:27	25
Ethylbenzene	6.49		0.0498	mg/Kg		06/29/23 08:40	06/29/23 20:27	25
m-Xylene & p-Xylene	39.4		0.201	mg/Kg		06/30/23 15:48	07/01/23 12:02	50
o-Xylene	8.19		0.0498	mg/Kg		06/29/23 08:40	06/29/23 20:27	25
Xylenes, Total	53.4		0.201	mg/Kg		06/30/23 15:48	07/01/23 12:02	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130	06/29/23 08:40	06/29/23 20:27	25
1,4-Difluorobenzene (Surr)	99		70 - 130	06/29/23 08:40	06/29/23 20:27	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	59.4		0.201	mg/Kg			06/30/23 15:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	10100		249	mg/Kg			06/29/23 09:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2930		249	mg/Kg		06/28/23 13:20	06/29/23 06:09	5
Diesel Range Organics (Over C10-C28)	7160		249	mg/Kg		06/28/23 13:20	06/29/23 06:09	5
Oil Range Organics (Over C28-C36)	<249	U	249	mg/Kg		06/28/23 13:20	06/29/23 06:09	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	223	S1+	70 - 130	06/28/23 13:20	06/29/23 06:09	5
o-Terphenyl	154	S1+	70 - 130	06/28/23 13:20	06/29/23 06:09	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5940	F1	50.0	mg/Kg			06/27/23 20:31	10

Client Sample ID: PH03

Lab Sample ID: 890-4856-2

Date Collected: 06/23/23 09:55

Matrix: Solid

Date Received: 06/23/23 15:07

Sample Depth: 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		06/29/23 08:40	06/29/23 19:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/29/23 08:40	06/29/23 19:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/29/23 08:40	06/29/23 19:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/29/23 08:40	06/29/23 19:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/29/23 08:40	06/29/23 19:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/29/23 08:40	06/29/23 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	06/29/23 08:40	06/29/23 19:25	1

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Client Sample Results

Client: Ensolum
 Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
 SDG: 03C1558244

Client Sample ID: PH03

Lab Sample ID: 890-4856-2

Date Collected: 06/23/23 09:55

Matrix: Solid

Date Received: 06/23/23 15:07

Sample Depth: 5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	80		70 - 130	06/29/23 08:40	06/29/23 19:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/30/23 15:46	1

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/28/23 13:20	06/29/23 05:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/28/23 13:20	06/29/23 05:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/28/23 13:20	06/29/23 05:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	172	S1+	70 - 130	06/28/23 13:20	06/29/23 05:03	1
o-Terphenyl	158	S1+	70 - 130	06/28/23 13:20	06/29/23 05:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7380		49.8	mg/Kg			06/27/23 20:48	10

Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-30147-A-1-C MS	Matrix Spike	103	110
880-30147-A-1-D MSD	Matrix Spike Duplicate	104	115
890-4856-1	PH03	168 S1+	99
890-4856-2	PH03	81	80
890-4878-A-4-B MS	Matrix Spike	111	86
890-4878-A-4-C MSD	Matrix Spike Duplicate	114	100
LCS 880-56542/1-A	Lab Control Sample	101	108
LCS 880-56726/1-A	Lab Control Sample	131 S1+	91
LCSD 880-56542/2-A	Lab Control Sample Dup	107	113
LCSD 880-56726/2-A	Lab Control Sample Dup	120	88
MB 880-56542/5-A	Method Blank	68 S1-	99
MB 880-56653/5-A	Method Blank	102	105
MB 880-56726/5-A	Method Blank	110	91

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-30102-A-1-F MS	Matrix Spike	210 S1+	158 S1+
880-30102-A-1-G MSD	Matrix Spike Duplicate	180 S1+	133 S1+
890-4856-1	PH03	223 S1+	154 S1+
890-4856-2	PH03	172 S1+	158 S1+
LCS 880-56502/2-A	Lab Control Sample	112	100
LCSD 880-56502/3-A	Lab Control Sample Dup	108	96
MB 880-56502/1-A	Method Blank	131 S1+	117

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56542/5-A
Matrix: Solid
Analysis Batch: 56541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56542

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

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

Lab Sample ID: LCS 880-56542/1-A
Matrix: Solid
Analysis Batch: 56541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56542

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

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

Lab Sample ID: LCSD 880-56542/2-A
Matrix: Solid
Analysis Batch: 56541

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56542

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

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

Lab Sample ID: 880-30147-A-1-C MS
Matrix: Solid
Analysis Batch: 56541

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 56542

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

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
SDG: 03C1558244

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

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

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 56541

Prep Batch: 56542

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

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

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

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 56541

Prep Batch: 56542

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

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

Lab Sample ID: MB 880-56653/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 56652

Prep Batch: 56653

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		06/30/23 08:28	06/30/23 14:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/30/23 08:28	06/30/23 14:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/30/23 08:28	06/30/23 14:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/30/23 08:28	06/30/23 14:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/30/23 08:28	06/30/23 14:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/30/23 08:28	06/30/23 14:40	1

Surrogate	MB	MB	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Prepared	Analyzed	Dil Fac
06/30/23 08:28	06/30/23 14:40	1
06/30/23 08:28	06/30/23 14:40	1

Lab Sample ID: MB 880-56726/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 56652

Prep Batch: 56726

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		06/30/23 15:48	07/01/23 03:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/30/23 15:48	07/01/23 03:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/30/23 15:48	07/01/23 03:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/30/23 15:48	07/01/23 03:35	1

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
SDG: 03C1558244

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

Lab Sample ID: MB 880-56726/5-A
Matrix: Solid
Analysis Batch: 56652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56726

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/30/23 15:48	07/01/23 03:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/30/23 15:48	07/01/23 03:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	110		70 - 130	06/30/23 15:48	07/01/23 03:35	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/30/23 15:48	07/01/23 03:35	1

Lab Sample ID: LCS 880-56726/1-A
Matrix: Solid
Analysis Batch: 56652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56726

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1355	*+	mg/Kg		136	70 - 130
Toluene	0.100	0.1345	*+	mg/Kg		135	70 - 130
Ethylbenzene	0.100	0.1277		mg/Kg		128	70 - 130
m-Xylene & p-Xylene	0.200	0.2468		mg/Kg		123	70 - 130
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-56726/2-A
Matrix: Solid
Analysis Batch: 56652

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56726

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
Benzene	0.100	0.1324	*+	mg/Kg		132	70 - 130	2	35
Toluene	0.100	0.1369	*+	mg/Kg		137	70 - 130	2	35
Ethylbenzene	0.100	0.1233		mg/Kg		123	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2352		mg/Kg		118	70 - 130	5	35
o-Xylene	0.100	0.1103		mg/Kg		110	70 - 130	5	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 890-4878-A-4-B MS
Matrix: Solid
Analysis Batch: 56652

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 56726

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	<0.00200	U *	0.0996	0.1288		mg/Kg		129	70 - 130
Toluene	<0.00200	U *	0.0996	0.1289		mg/Kg		129	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.1107		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2149		mg/Kg		108	70 - 130
o-Xylene	<0.00200	U	0.0996	0.1017		mg/Kg		102	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
SDG: 03C1558244

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

Lab Sample ID: 890-4878-A-4-B MS
Matrix: Solid
Analysis Batch: 56652

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 56726

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 890-4878-A-4-C MSD
Matrix: Solid
Analysis Batch: 56652

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 56726

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U **	0.0994	0.1271		mg/Kg		128	70 - 130	1	35
Toluene	<0.00200	U **	0.0994	0.1179		mg/Kg		119	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.0994	0.09808		mg/Kg		99	70 - 130	12	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1901		mg/Kg		96	70 - 130	12	35
o-Xylene	<0.00200	U	0.0994	0.08983		mg/Kg		90	70 - 130	12	35

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

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

Lab Sample ID: MB 880-56502/1-A
Matrix: Solid
Analysis Batch: 56450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56502

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

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

Lab Sample ID: LCS 880-56502/2-A
Matrix: Solid
Analysis Batch: 56450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56502

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

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

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
SDG: 03C1558244

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

Lab Sample ID: LCSD 880-56502/3-A
Matrix: Solid
Analysis Batch: 56450

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56502

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	1263		mg/Kg		126	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)	1000	967.6		mg/Kg		97	70 - 130	6	20	
		LCSD	LCSD							
Surrogate		%Recovery	Qualifier	Limits						
1-Chlorooctane		108		70 - 130						
o-Terphenyl		96		70 - 130						

Lab Sample ID: 880-30102-A-1-F MS
Matrix: Solid
Analysis Batch: 56450

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 56502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1118		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1112		mg/Kg		110	70 - 130		
		MS	MS								
Surrogate		%Recovery	Qualifier	Limits							
1-Chlorooctane		210	S1+	70 - 130							
o-Terphenyl		158	S1+	70 - 130							

Lab Sample ID: 880-30102-A-1-G MSD
Matrix: Solid
Analysis Batch: 56450

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 56502

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1023		mg/Kg		101	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	954.3		mg/Kg		94	70 - 130	15	20
		MSD	MSD								
Surrogate		%Recovery	Qualifier	Limits							
1-Chlorooctane		180	S1+	70 - 130							
o-Terphenyl		133	S1+	70 - 130							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56386/1-A
Matrix: Solid
Analysis Batch: 56440

Client Sample ID: Method Blank
Prep Type: Soluble

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

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QC Sample Results

Client: Ensolum
 Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
 SDG: 03C1558244

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-56386/2-A
Matrix: Solid
Analysis Batch: 56440

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-56386/3-A
Matrix: Solid
Analysis Batch: 56440

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

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

Lab Sample ID: 890-4856-1 MS
Matrix: Solid
Analysis Batch: 56440

Client Sample ID: PH03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5940	F1	2500	8174	F1	mg/Kg		89	90 - 110

Lab Sample ID: 890-4856-1 MSD
Matrix: Solid
Analysis Batch: 56440

Client Sample ID: PH03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5940	F1	2500	8143	F1	mg/Kg		88	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
SDG: 03C1558244

GC VOA

Analysis Batch: 56541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	8021B	56542
890-4856-2	PH03	Total/NA	Solid	8021B	56542
MB 880-56542/5-A	Method Blank	Total/NA	Solid	8021B	56542
LCS 880-56542/1-A	Lab Control Sample	Total/NA	Solid	8021B	56542
LCSD 880-56542/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56542
880-30147-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	56542
880-30147-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56542

Prep Batch: 56542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	5035	
890-4856-2	PH03	Total/NA	Solid	5035	
MB 880-56542/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56542/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56542/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30147-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-30147-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 56652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	8021B	56726
MB 880-56653/5-A	Method Blank	Total/NA	Solid	8021B	56653
MB 880-56726/5-A	Method Blank	Total/NA	Solid	8021B	56726
LCS 880-56726/1-A	Lab Control Sample	Total/NA	Solid	8021B	56726
LCSD 880-56726/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56726
890-4878-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	56726
890-4878-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56726

Prep Batch: 56653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56653/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 56721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	Total BTEX	
890-4856-2	PH03	Total/NA	Solid	Total BTEX	

Prep Batch: 56726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	5035	
MB 880-56726/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56726/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56726/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4878-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
890-4878-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 56450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	8015B NM	56502

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
SDG: 03C1558244

GC Semi VOA (Continued)

Analysis Batch: 56450 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-2	PH03	Total/NA	Solid	8015B NM	56502
MB 880-56502/1-A	Method Blank	Total/NA	Solid	8015B NM	56502
LCS 880-56502/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56502
LCSD 880-56502/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56502
880-30102-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	56502
880-30102-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56502

Prep Batch: 56502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	8015NM Prep	
890-4856-2	PH03	Total/NA	Solid	8015NM Prep	
MB 880-56502/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56502/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56502/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30102-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-30102-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Total/NA	Solid	8015 NM	
890-4856-2	PH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Soluble	Solid	DI Leach	
890-4856-2	PH03	Soluble	Solid	DI Leach	
MB 880-56386/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56386/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56386/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4856-1 MS	PH03	Soluble	Solid	DI Leach	
890-4856-1 MSD	PH03	Soluble	Solid	DI Leach	

Analysis Batch: 56440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4856-1	PH03	Soluble	Solid	300.0	56386
890-4856-2	PH03	Soluble	Solid	300.0	56386
MB 880-56386/1-A	Method Blank	Soluble	Solid	300.0	56386
LCS 880-56386/2-A	Lab Control Sample	Soluble	Solid	300.0	56386
LCSD 880-56386/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56386
890-4856-1 MS	PH03	Soluble	Solid	300.0	56386
890-4856-1 MSD	PH03	Soluble	Solid	300.0	56386

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
 SDG: 03C1558244

Client Sample ID: PH03

Lab Sample ID: 890-4856-1

Date Collected: 06/23/23 09:45

Matrix: Solid

Date Received: 06/23/23 15:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	56726	06/30/23 15:48	EL	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	56652	07/01/23 12:02	SM	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	56542	06/29/23 08:40	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	56541	06/29/23 20:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56721	06/30/23 15:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			56549	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	56450	06/29/23 06:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56386	06/27/23 09:33	CH	EET MID
Soluble	Analysis	300.0		10			56440	06/27/23 20:31	CH	EET MID

Client Sample ID: PH03

Lab Sample ID: 890-4856-2

Date Collected: 06/23/23 09:55

Matrix: Solid

Date Received: 06/23/23 15:07

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	56542	06/29/23 08:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56541	06/29/23 19:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56721	06/30/23 15:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			56549	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/29/23 05:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56386	06/27/23 09:33	CH	EET MID
Soluble	Analysis	300.0		10			56440	06/27/23 20:48	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 224

Job ID: 890-4856-1
SDG: 03C1558244

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
N/A	N/A	None on record.	

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Method Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4856-1
SDG: 03C1558244

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 224

Job ID: 890-4856-1
SDG: 03C1558244

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4856-1	PH03	Solid	06/23/23 09:45	06/23/23 15:07	3
890-4856-2	PH03	Solid	06/23/23 09:55	06/23/23 15:07	5

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Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page _____ of _____

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

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	State of Project:
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:	Poker Lake Unit 224	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush
Project Number:	03C1558244	Due Date:	
Project Location:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:		Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
PO #:		Thermometer ID:	71110007

Parameters	ANALYSIS REQUEST	Preservative Codes
CHLORIDES (EPA: 3000.0)		None: NO
TPH (8015)		DI Water: H ₂ O
BTEX (8021)		Cool: Cool
		HCL: HC
		H ₂ SO ₄ : H ₂
		H ₃ PO ₄ : HP
		NaHSO ₄ : NABIS
		Na ₂ S ₂ O ₃ : NaSO ₃
		Zn Acetate+NaOH: Zn
		NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)
PH03	S	6/23/20	095	3'	G	1			
PH03	S	6/23/20	095	5'	G	1			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631 / 245 / 17470 / 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
<i>[Signature]</i>	<i>[Signature]</i>	6-23-20 1509			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4856-1

SDG Number: 03C1558244

Login Number: 4856

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4856-1

SDG Number: 03C1558244

Login Number: 4856

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
 Ensolum
 601 N. Marienfeld St.
 Suite 400
 Midland, Texas 79701
 Generated 7/3/2023 4:18:27 PM

JOB DESCRIPTION

Poker Lake Unit 224
 SDG NUMBER 03C1558244

JOB NUMBER

890-4873-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
7/3/2023 4:18:27 PM

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

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Client: Ensolum
Project/Site: Poker Lake Unit 224

Laboratory Job ID: 890-4873-1
SDG: 03C1558244

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Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Job ID: 890-4873-1**Laboratory: Eurofins Carlsbad****Narrative**

Job Narrative
890-4873-1

Receipt

The samples were received on 6/28/2023 9:16 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW01 (890-4873-1), SW02 (890-4873-2), SW03 (890-4873-3), SW04 (890-4873-4), SW05 (890-4873-5), FS01 (890-4873-6), FS02 (890-4873-7), FS03 (890-4873-8), FS04 (890-4873-9), FS05 (890-4873-10), FS06 (890-4873-11) and FS07 (890-4873-12).

GC VOA

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

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW02 (890-4873-2) and SW03 (890-4873-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW04 (890-4873-4). 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: FS01 (890-4873-6), FS02 (890-4873-7), FS03 (890-4873-8), FS04 (890-4873-9) and FS05 (890-4873-10). 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 880-56603 and 880-56603 and analytical batch 880-56748 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-56819 and analytical batch 880-56814 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW01 (890-4873-1). 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 880-56819 and analytical batch 880-56814 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.

Case Narrative

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Job ID: 890-4873-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-56551 and analytical batch 880-56693 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.

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Client Sample ID: SW01

Lab Sample ID: 890-4873-1

Date Collected: 06/27/23 10:00

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202	mg/Kg		06/29/23 14:56	06/30/23 05:08	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/29/23 14:56	06/30/23 05:08	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/29/23 14:56	06/30/23 05:08	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		06/29/23 14:56	06/30/23 05:08	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/29/23 14:56	06/30/23 05:08	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/29/23 14:56	06/30/23 05:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	06/29/23 14:56	06/30/23 05:08	1
1,4-Difluorobenzene (Surr)	108		70 - 130	06/29/23 14:56	06/30/23 05:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	65.4		49.9	mg/Kg			07/03/23 16:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/03/23 08:20	07/03/23 12:50	1
Diesel Range Organics (Over C10-C28)	65.4		49.9	mg/Kg		07/03/23 08:20	07/03/23 12:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/03/23 08:20	07/03/23 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	07/03/23 08:20	07/03/23 12:50	1
o-Terphenyl	121		70 - 130	07/03/23 08:20	07/03/23 12:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	724	F1	5.04	mg/Kg			06/30/23 14:53	1

Client Sample ID: SW02

Lab Sample ID: 890-4873-2

Date Collected: 06/27/23 14:00

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U **	0.00198	mg/Kg		06/29/23 14:56	06/30/23 05:29	1
Toluene	0.00449		0.00198	mg/Kg		06/29/23 14:56	06/30/23 05:29	1
Ethylbenzene	0.00546		0.00198	mg/Kg		06/29/23 14:56	06/30/23 05:29	1
m-Xylene & p-Xylene	0.0214		0.00396	mg/Kg		06/29/23 14:56	06/30/23 05:29	1
o-Xylene	0.0117		0.00198	mg/Kg		06/29/23 14:56	06/30/23 05:29	1
Xylenes, Total	0.0331		0.00396	mg/Kg		06/29/23 14:56	06/30/23 05:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	06/29/23 14:56	06/30/23 05:29	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Client Sample ID: SW02

Lab Sample ID: 890-4873-2

Date Collected: 06/27/23 14:00

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	06/29/23 14:56	06/30/23 05:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0431		0.00396	mg/Kg			06/30/23 15:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/03/23 16:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/03/23 08:20	07/03/23 13:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/03/23 08:20	07/03/23 13:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/03/23 08:20	07/03/23 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	07/03/23 08:20	07/03/23 13:12	1
o-Terphenyl	88		70 - 130	07/03/23 08:20	07/03/23 13:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	295		4.98	mg/Kg			06/30/23 15:09	1

Client Sample ID: SW03

Lab Sample ID: 890-4873-3

Date Collected: 06/27/23 14:05

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	mg/Kg		06/29/23 14:56	06/30/23 05:49	1
Toluene	0.00316		0.00200	mg/Kg		06/29/23 14:56	06/30/23 05:49	1
Ethylbenzene	0.00484		0.00200	mg/Kg		06/29/23 14:56	06/30/23 05:49	1
m-Xylene & p-Xylene	0.0198		0.00399	mg/Kg		06/29/23 14:56	06/30/23 05:49	1
o-Xylene	0.0103		0.00200	mg/Kg		06/29/23 14:56	06/30/23 05:49	1
Xylenes, Total	0.0301		0.00399	mg/Kg		06/29/23 14:56	06/30/23 05:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	06/29/23 14:56	06/30/23 05:49	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/29/23 14:56	06/30/23 05:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0381		0.00399	mg/Kg			06/30/23 15:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	104		49.9	mg/Kg			07/03/23 16:42	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Client Sample ID: SW03

Lab Sample ID: 890-4873-3

Date Collected: 06/27/23 14:05

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/03/23 08:20	07/03/23 13:35	1
Diesel Range Organics (Over C10-C28)	104		49.9	mg/Kg		07/03/23 08:20	07/03/23 13:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/03/23 08:20	07/03/23 13:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			07/03/23 08:20	07/03/23 13:35	1
o-Terphenyl	95		70 - 130			07/03/23 08:20	07/03/23 13:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	457		4.95	mg/Kg			06/30/23 15:14	1

Client Sample ID: SW04

Lab Sample ID: 890-4873-4

Date Collected: 06/27/23 15:10

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U +	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:10	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:10	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:10	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		06/29/23 14:56	06/30/23 06:10	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:10	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		06/29/23 14:56	06/30/23 06:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			06/29/23 14:56	06/30/23 06:10	1
1,4-Difluorobenzene (Surr)	108		70 - 130			06/29/23 14:56	06/30/23 06:10	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			06/30/23 15:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/03/23 11:15	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	<49.9	U F2	49.9	mg/Kg		06/29/23 12:46	07/01/23 12:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	mg/Kg		06/29/23 12:46	07/01/23 12:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/29/23 12:46	07/01/23 12:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130			06/29/23 12:46	07/01/23 12:35	1
o-Terphenyl	126		70 - 130			06/29/23 12:46	07/01/23 12:35	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Client Sample ID: SW04

Lab Sample ID: 890-4873-4

Date Collected: 06/27/23 15:10

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		4.95	mg/Kg			06/30/23 15:19	1

Client Sample ID: SW05

Lab Sample ID: 890-4873-5

Date Collected: 06/27/23 15:15

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U **	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:31	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:31	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:31	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/29/23 14:56	06/30/23 06:31	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 06:31	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/29/23 14:56	06/30/23 06:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			06/29/23 14:56	06/30/23 06:31	1
1,4-Difluorobenzene (Surr)	105		70 - 130			06/29/23 14:56	06/30/23 06:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.7		49.8	mg/Kg			07/03/23 11:15	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	<49.8	U	49.8	mg/Kg		06/29/23 12:46	07/01/23 13:43	1
Diesel Range Organics (Over C10-C28)	59.7		49.8	mg/Kg		06/29/23 12:46	07/01/23 13:43	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/29/23 12:46	07/01/23 13:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			06/29/23 12:46	07/01/23 13:43	1
o-Terphenyl	106		70 - 130			06/29/23 12:46	07/01/23 13:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	285		5.02	mg/Kg			06/30/23 15:24	1

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Client Sample ID: FS01

Lab Sample ID: 890-4873-6

Date Collected: 06/27/23 10:10

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200	mg/Kg		06/29/23 14:56	06/30/23 06:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 06:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 06:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/23 14:56	06/30/23 06:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 06:52	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/23 14:56	06/30/23 06:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	06/29/23 14:56	06/30/23 06:52	1
1,4-Difluorobenzene (Surr)	108		70 - 130	06/29/23 14:56	06/30/23 06:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			06/30/23 15:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	213		50.2	mg/Kg			07/03/23 11:15	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	<50.2	U	50.2	mg/Kg		06/29/23 12:46	07/01/23 14:06	1
Diesel Range Organics (Over C10-C28)	213		50.2	mg/Kg		06/29/23 12:46	07/01/23 14:06	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		06/29/23 12:46	07/01/23 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	06/29/23 12:46	07/01/23 14:06	1
o-Terphenyl	130		70 - 130	06/29/23 12:46	07/01/23 14:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3360		25.1	mg/Kg			06/30/23 15:40	5

Client Sample ID: FS02

Lab Sample ID: 890-4873-7

Date Collected: 06/27/23 10:15

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202	mg/Kg		06/29/23 14:56	06/30/23 07:13	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/29/23 14:56	06/30/23 07:13	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/29/23 14:56	06/30/23 07:13	1
m-Xylene & p-Xylene	0.0115		0.00404	mg/Kg		06/29/23 14:56	06/30/23 07:13	1
o-Xylene	0.00710		0.00202	mg/Kg		06/29/23 14:56	06/30/23 07:13	1
Xylenes, Total	0.0186		0.00404	mg/Kg		06/29/23 14:56	06/30/23 07:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/29/23 14:56	06/30/23 07:13	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Client Sample ID: FS02

Lab Sample ID: 890-4873-7

Date Collected: 06/27/23 10:15

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	06/29/23 14:56	06/30/23 07:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0186		0.00404	mg/Kg			06/30/23 15:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2400		50.0	mg/Kg			07/03/23 11:15	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		06/29/23 12:46	07/01/23 14:28	1
Diesel Range Organics (Over C10-C28)	2400		50.0	mg/Kg		06/29/23 12:46	07/01/23 14:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/29/23 12:46	07/01/23 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	06/29/23 12:46	07/01/23 14:28	1
o-Terphenyl	115		70 - 130	06/29/23 12:46	07/01/23 14:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6050		49.9	mg/Kg			06/30/23 15:45	10

Client Sample ID: FS03

Lab Sample ID: 890-4873-8

Date Collected: 06/27/23 13:05

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	mg/Kg		06/29/23 14:56	06/30/23 08:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 08:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 08:37	1
m-Xylene & p-Xylene	0.00609		0.00401	mg/Kg		06/29/23 14:56	06/30/23 08:37	1
o-Xylene	0.00355		0.00200	mg/Kg		06/29/23 14:56	06/30/23 08:37	1
Xylenes, Total	0.00964		0.00401	mg/Kg		06/29/23 14:56	06/30/23 08:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/29/23 14:56	06/30/23 08:37	1
1,4-Difluorobenzene (Surr)	104		70 - 130	06/29/23 14:56	06/30/23 08:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00964		0.00401	mg/Kg			06/30/23 15:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1210		50.1	mg/Kg			07/03/23 11:15	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Client Sample ID: FS03

Lab Sample ID: 890-4873-8

Date Collected: 06/27/23 13:05

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		06/29/23 12:46	07/01/23 14:50	1
Diesel Range Organics (Over C10-C28)	1210		50.1	mg/Kg		06/29/23 12:46	07/01/23 14:50	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/29/23 12:46	07/01/23 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			06/29/23 12:46	07/01/23 14:50	1
o-Terphenyl	112		70 - 130			06/29/23 12:46	07/01/23 14:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4740		49.7	mg/Kg			06/30/23 15:50	10

Client Sample ID: FS04

Lab Sample ID: 890-4873-9

Date Collected: 06/27/23 13:10

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U +	0.00199	mg/Kg		06/29/23 14:56	06/30/23 08:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/29/23 14:56	06/30/23 08:58	1
Ethylbenzene	0.00205		0.00199	mg/Kg		06/29/23 14:56	06/30/23 08:58	1
m-Xylene & p-Xylene	0.00566		0.00398	mg/Kg		06/29/23 14:56	06/30/23 08:58	1
o-Xylene	0.00418		0.00199	mg/Kg		06/29/23 14:56	06/30/23 08:58	1
Xylenes, Total	0.00984		0.00398	mg/Kg		06/29/23 14:56	06/30/23 08:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			06/29/23 14:56	06/30/23 08:58	1
1,4-Difluorobenzene (Surr)	107		70 - 130			06/29/23 14:56	06/30/23 08:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0119		0.00398	mg/Kg			06/30/23 15:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	582		49.8	mg/Kg			07/03/23 11:15	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	<49.8	U	49.8	mg/Kg		06/29/23 12:46	07/01/23 15:13	1
Diesel Range Organics (Over C10-C28)	582		49.8	mg/Kg		06/29/23 12:46	07/01/23 15:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/29/23 12:46	07/01/23 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			06/29/23 12:46	07/01/23 15:13	1
o-Terphenyl	111		70 - 130			06/29/23 12:46	07/01/23 15:13	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Client Sample ID: FS04

Lab Sample ID: 890-4873-9

Date Collected: 06/27/23 13:10

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1690		24.8	mg/Kg			06/30/23 15:55	5

Client Sample ID: FS05

Lab Sample ID: 890-4873-10

Date Collected: 06/27/23 14:10

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U **	0.00198	mg/Kg		06/29/23 14:56	06/30/23 09:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 09:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 09:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/29/23 14:56	06/30/23 09:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/29/23 14:56	06/30/23 09:19	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/29/23 14:56	06/30/23 09:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			06/29/23 14:56	06/30/23 09:19	1
1,4-Difluorobenzene (Surr)	106		70 - 130			06/29/23 14:56	06/30/23 09:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	254		49.9	mg/Kg			07/03/23 11:15	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	<49.9	U	49.9	mg/Kg		06/29/23 12:46	07/01/23 15:35	1
Diesel Range Organics (Over C10-C28)	254		49.9	mg/Kg		06/29/23 12:46	07/01/23 15:35	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/29/23 12:46	07/01/23 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			06/29/23 12:46	07/01/23 15:35	1
o-Terphenyl	116		70 - 130			06/29/23 12:46	07/01/23 15:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2770		25.2	mg/Kg			06/30/23 16:01	5

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Client Sample ID: FS06

Lab Sample ID: 890-4873-11

Date Collected: 06/27/23 15:20

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200	mg/Kg		06/29/23 14:56	06/30/23 09:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 09:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 09:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/23 14:56	06/30/23 09:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 09:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/23 14:56	06/30/23 09:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	06/29/23 14:56	06/30/23 09:40	1
1,4-Difluorobenzene (Surr)	104		70 - 130	06/29/23 14:56	06/30/23 09:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			06/30/23 15:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/03/23 11:15	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		06/29/23 12:46	07/01/23 15:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/29/23 12:46	07/01/23 15:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/29/23 12:46	07/01/23 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	06/29/23 12:46	07/01/23 15:58	1
o-Terphenyl	99		70 - 130	06/29/23 12:46	07/01/23 15:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2060		25.3	mg/Kg			06/30/23 16:06	5

Client Sample ID: FS07

Lab Sample ID: 890-4873-12

Date Collected: 06/27/23 15:25

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199	mg/Kg		06/29/23 14:56	06/30/23 10:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/29/23 14:56	06/30/23 10:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/29/23 14:56	06/30/23 10:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/29/23 14:56	06/30/23 10:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/29/23 14:56	06/30/23 10:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/29/23 14:56	06/30/23 10:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	06/29/23 14:56	06/30/23 10:01	1

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Client Sample Results

Client: Ensolum
 Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
 SDG: 03C1558244

Client Sample ID: FS07

Lab Sample ID: 890-4873-12

Date Collected: 06/27/23 15:25

Matrix: Solid

Date Received: 06/28/23 09:16

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130	06/29/23 14:56	06/30/23 10:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/30/23 15:25	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			07/03/23 11:15	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	<50.1	U	50.1	mg/Kg		06/29/23 12:46	07/01/23 16:20	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		06/29/23 12:46	07/01/23 16:20	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/29/23 12:46	07/01/23 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	06/29/23 12:46	07/01/23 16:20	1
o-Terphenyl	112		70 - 130	06/29/23 12:46	07/01/23 16:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		4.96	mg/Kg			06/30/23 16:21	1

Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-4857-A-6-C MS	Matrix Spike	104	101
890-4857-A-6-D MSD	Matrix Spike Duplicate	142 S1+	98
890-4873-1	SW01	110	108
890-4873-2	SW02	152 S1+	95
890-4873-3	SW03	147 S1+	100
890-4873-4	SW04	109	108
890-4873-5	SW05	108	105
890-4873-6	FS01	98	108
890-4873-7	FS02	103	106
890-4873-8	FS03	101	104
890-4873-9	FS04	97	107
890-4873-10	FS05	107	106
890-4873-11	FS06	98	104
890-4873-12	FS07	98	109
LCS 880-56630/1-A	Lab Control Sample	102	101
LCSD 880-56630/2-A	Lab Control Sample Dup	107	93
MB 880-56572/5-A	Method Blank	97	88
MB 880-56630/5-A	Method Blank	99	85

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-4873-1	SW01	135 S1+	121
890-4873-2	SW02	106	88
890-4873-3	SW03	116	95
890-4873-4	SW04	141 S1+	126
890-4873-4 MS	SW04	128	100
890-4873-4 MSD	SW04	118	92
890-4873-5	SW05	121	106
890-4873-6	FS01	148 S1+	130
890-4873-7	FS02	139 S1+	115
890-4873-8	FS03	131 S1+	112
890-4873-9	FS04	132 S1+	111
890-4873-10	FS05	132 S1+	116
890-4873-11	FS06	116	99
890-4873-12	FS07	126	112
890-4875-A-2-H MS	Matrix Spike	125	98
890-4875-A-2-I MSD	Matrix Spike Duplicate	108	85
LCS 880-56603/2-A	Lab Control Sample	109	100
LCS 880-56819/2-A	Lab Control Sample	85	73
LCSD 880-56603/3-A	Lab Control Sample Dup	100	93
LCSD 880-56819/3-A	Lab Control Sample Dup	90	82
MB 880-56603/1-A	Method Blank	109	99

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Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
MB 880-56819/1-A	Method Blank	137 S1+	124

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56572/5-A
Matrix: Solid
Analysis Batch: 56626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56572

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/23 10:49	06/29/23 16:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			06/29/23 10:49	06/29/23 16:56	1
1,4-Difluorobenzene (Surr)	88		70 - 130			06/29/23 10:49	06/29/23 16:56	1

Lab Sample ID: MB 880-56630/5-A
Matrix: Solid
Analysis Batch: 56626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56630

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 03:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 03:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 03:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/23 14:56	06/30/23 03:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/23 14:56	06/30/23 03:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/23 14:56	06/30/23 03:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			06/29/23 14:56	06/30/23 03:44	1
1,4-Difluorobenzene (Surr)	85		70 - 130			06/29/23 14:56	06/30/23 03:44	1

Lab Sample ID: LCS 880-56630/1-A
Matrix: Solid
Analysis Batch: 56626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.1282		mg/Kg		128	70 - 130
Ethylbenzene	0.100	0.1065		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2196		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1065		mg/Kg		107	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	102		70 - 130				
1,4-Difluorobenzene (Surr)	101		70 - 130				

Lab Sample ID: LCSD 880-56630/2-A
Matrix: Solid
Analysis Batch: 56626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56630

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

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

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

Lab Sample ID: LCSD 880-56630/2-A
Matrix: Solid
Analysis Batch: 56626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56630

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

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

Lab Sample ID: 890-4857-A-6-C MS
Matrix: Solid
Analysis Batch: 56626

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 56630

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

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

Lab Sample ID: 890-4857-A-6-D MSD
Matrix: Solid
Analysis Batch: 56626

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 56630

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

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

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

Lab Sample ID: MB 880-56603/1-A
Matrix: Solid
Analysis Batch: 56748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56603

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/29/23 12:46	07/01/23 10:00		1

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

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

Lab Sample ID: MB 880-56603/1-A
Matrix: Solid
Analysis Batch: 56748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56603

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/29/23 12:46	07/01/23 10:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/29/23 12:46	07/01/23 10:00	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	109		70 - 130	06/29/23 12:46	07/01/23 10:00	1
o-Terphenyl	99		70 - 130	06/29/23 12:46	07/01/23 10:00	1

Lab Sample ID: LCS 880-56603/2-A
Matrix: Solid
Analysis Batch: 56748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56603

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	1041		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1029		mg/Kg		103	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	109		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-56603/3-A
Matrix: Solid
Analysis Batch: 56748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56603

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1037		mg/Kg		104	70 - 130	1	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	100		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 890-4873-4 MS
Matrix: Solid
Analysis Batch: 56748

Client Sample ID: SW04
Prep Type: Total/NA
Prep Batch: 56603

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	1000	1250		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	1342	F1	mg/Kg		131	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	128		70 - 130
o-Terphenyl	100		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

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

Lab Sample ID: 890-4873-4 MSD
Matrix: Solid
Analysis Batch: 56748

Client Sample ID: SW04
Prep Type: Total/NA
Prep Batch: 56603

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	1000	971.2	F2	mg/Kg		94	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	1235		mg/Kg		120	70 - 130	8	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	118		70 - 130								
o-Terphenyl	92		70 - 130								

Lab Sample ID: MB 880-56819/1-A
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56819

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/03/23 08:00	07/03/23 08:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/03/23 08:00	07/03/23 08:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/03/23 08:00	07/03/23 08:16	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1-Chlorooctane	137	S1+	70 - 130			07/03/23 08:00	07/03/23 08:16	1
o-Terphenyl	124		70 - 130			07/03/23 08:00	07/03/23 08:16	1

Lab Sample ID: LCS 880-56819/2-A
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56819

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	901.2		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	824.2		mg/Kg		82	70 - 130		
Surrogate	LCS	LCS	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	85		70 - 130						
o-Terphenyl	73		70 - 130						

Lab Sample ID: LCSD 880-56819/3-A
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56819

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	875.3		mg/Kg		88	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	841.2		mg/Kg		84	70 - 130	2	20

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

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

Lab Sample ID: LCSD 880-56819/3-A
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56819

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	90		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 890-4875-A-2-H MS
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 56819

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1010		mg/Kg		99		70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	1353	F1	mg/Kg		131		70 - 130

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	125		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-4875-A-2-I MSD
Matrix: Solid
Analysis Batch: 56814

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 56819

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	886.9		mg/Kg		87		70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	1171		mg/Kg		113		70 - 130	14	20

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	108		70 - 130
o-Terphenyl	85		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56551/1-A
Matrix: Solid
Analysis Batch: 56693

Client Sample ID: Method Blank
Prep Type: Soluble

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

Lab Sample ID: LCS 880-56551/2-A
Matrix: Solid
Analysis Batch: 56693

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

QC Sample Results

Client: Ensolum
 Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
 SDG: 03C1558244

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-56551/3-A
Matrix: Solid
Analysis Batch: 56693

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.4		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-4873-1 MS
Matrix: Solid
Analysis Batch: 56693

Client Sample ID: SW01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	724	F1	252	942.7	F1	mg/Kg		87	90 - 110

Lab Sample ID: 890-4873-1 MSD
Matrix: Solid
Analysis Batch: 56693

Client Sample ID: SW01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	724	F1	252	942.8	F1	mg/Kg		87	90 - 110	0	20

Lab Sample ID: 890-4873-11 MS
Matrix: Solid
Analysis Batch: 56693

Client Sample ID: FS06
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2060		1260	3345		mg/Kg		102	90 - 110

Lab Sample ID: 890-4873-11 MSD
Matrix: Solid
Analysis Batch: 56693

Client Sample ID: FS06
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2060		1260	3347		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Ensolum
 Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
 SDG: 03C1558244

GC VOA

Prep Batch: 56572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56572/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 56626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Total/NA	Solid	8021B	56630
890-4873-2	SW02	Total/NA	Solid	8021B	56630
890-4873-3	SW03	Total/NA	Solid	8021B	56630
890-4873-4	SW04	Total/NA	Solid	8021B	56630
890-4873-5	SW05	Total/NA	Solid	8021B	56630
890-4873-6	FS01	Total/NA	Solid	8021B	56630
890-4873-7	FS02	Total/NA	Solid	8021B	56630
890-4873-8	FS03	Total/NA	Solid	8021B	56630
890-4873-9	FS04	Total/NA	Solid	8021B	56630
890-4873-10	FS05	Total/NA	Solid	8021B	56630
890-4873-11	FS06	Total/NA	Solid	8021B	56630
890-4873-12	FS07	Total/NA	Solid	8021B	56630
MB 880-56572/5-A	Method Blank	Total/NA	Solid	8021B	56572
MB 880-56630/5-A	Method Blank	Total/NA	Solid	8021B	56630
LCS 880-56630/1-A	Lab Control Sample	Total/NA	Solid	8021B	56630
LCSD 880-56630/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56630
890-4857-A-6-C MS	Matrix Spike	Total/NA	Solid	8021B	56630
890-4857-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56630

Prep Batch: 56630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Total/NA	Solid	5035	
890-4873-2	SW02	Total/NA	Solid	5035	
890-4873-3	SW03	Total/NA	Solid	5035	
890-4873-4	SW04	Total/NA	Solid	5035	
890-4873-5	SW05	Total/NA	Solid	5035	
890-4873-6	FS01	Total/NA	Solid	5035	
890-4873-7	FS02	Total/NA	Solid	5035	
890-4873-8	FS03	Total/NA	Solid	5035	
890-4873-9	FS04	Total/NA	Solid	5035	
890-4873-10	FS05	Total/NA	Solid	5035	
890-4873-11	FS06	Total/NA	Solid	5035	
890-4873-12	FS07	Total/NA	Solid	5035	
MB 880-56630/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56630/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56630/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4857-A-6-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4857-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 56716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Total/NA	Solid	Total BTEX	
890-4873-2	SW02	Total/NA	Solid	Total BTEX	
890-4873-3	SW03	Total/NA	Solid	Total BTEX	
890-4873-4	SW04	Total/NA	Solid	Total BTEX	
890-4873-5	SW05	Total/NA	Solid	Total BTEX	
890-4873-6	FS01	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

GC VOA (Continued)

Analysis Batch: 56716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-7	FS02	Total/NA	Solid	Total BTEX	
890-4873-8	FS03	Total/NA	Solid	Total BTEX	
890-4873-9	FS04	Total/NA	Solid	Total BTEX	
890-4873-10	FS05	Total/NA	Solid	Total BTEX	
890-4873-11	FS06	Total/NA	Solid	Total BTEX	
890-4873-12	FS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 56603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-4	SW04	Total/NA	Solid	8015NM Prep	
890-4873-5	SW05	Total/NA	Solid	8015NM Prep	
890-4873-6	FS01	Total/NA	Solid	8015NM Prep	
890-4873-7	FS02	Total/NA	Solid	8015NM Prep	
890-4873-8	FS03	Total/NA	Solid	8015NM Prep	
890-4873-9	FS04	Total/NA	Solid	8015NM Prep	
890-4873-10	FS05	Total/NA	Solid	8015NM Prep	
890-4873-11	FS06	Total/NA	Solid	8015NM Prep	
890-4873-12	FS07	Total/NA	Solid	8015NM Prep	
MB 880-56603/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56603/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56603/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4873-4 MS	SW04	Total/NA	Solid	8015NM Prep	
890-4873-4 MSD	SW04	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-4	SW04	Total/NA	Solid	8015B NM	56603
890-4873-5	SW05	Total/NA	Solid	8015B NM	56603
890-4873-6	FS01	Total/NA	Solid	8015B NM	56603
890-4873-7	FS02	Total/NA	Solid	8015B NM	56603
890-4873-8	FS03	Total/NA	Solid	8015B NM	56603
890-4873-9	FS04	Total/NA	Solid	8015B NM	56603
890-4873-10	FS05	Total/NA	Solid	8015B NM	56603
890-4873-11	FS06	Total/NA	Solid	8015B NM	56603
890-4873-12	FS07	Total/NA	Solid	8015B NM	56603
MB 880-56603/1-A	Method Blank	Total/NA	Solid	8015B NM	56603
LCS 880-56603/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56603
LCSD 880-56603/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56603
890-4873-4 MS	SW04	Total/NA	Solid	8015B NM	56603
890-4873-4 MSD	SW04	Total/NA	Solid	8015B NM	56603

Analysis Batch: 56814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Total/NA	Solid	8015B NM	56819
890-4873-2	SW02	Total/NA	Solid	8015B NM	56819
890-4873-3	SW03	Total/NA	Solid	8015B NM	56819
MB 880-56819/1-A	Method Blank	Total/NA	Solid	8015B NM	56819
LCS 880-56819/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56819
LCSD 880-56819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56819

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QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

GC Semi VOA (Continued)

Analysis Batch: 56814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4875-A-2-H MS	Matrix Spike	Total/NA	Solid	8015B NM	56819
890-4875-A-2-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56819

Prep Batch: 56819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Total/NA	Solid	8015NM Prep	
890-4873-2	SW02	Total/NA	Solid	8015NM Prep	
890-4873-3	SW03	Total/NA	Solid	8015NM Prep	
MB 880-56819/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56819/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4875-A-2-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4875-A-2-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Total/NA	Solid	8015 NM	
890-4873-2	SW02	Total/NA	Solid	8015 NM	
890-4873-3	SW03	Total/NA	Solid	8015 NM	
890-4873-4	SW04	Total/NA	Solid	8015 NM	
890-4873-5	SW05	Total/NA	Solid	8015 NM	
890-4873-6	FS01	Total/NA	Solid	8015 NM	
890-4873-7	FS02	Total/NA	Solid	8015 NM	
890-4873-8	FS03	Total/NA	Solid	8015 NM	
890-4873-9	FS04	Total/NA	Solid	8015 NM	
890-4873-10	FS05	Total/NA	Solid	8015 NM	
890-4873-11	FS06	Total/NA	Solid	8015 NM	
890-4873-12	FS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Soluble	Solid	DI Leach	
890-4873-2	SW02	Soluble	Solid	DI Leach	
890-4873-3	SW03	Soluble	Solid	DI Leach	
890-4873-4	SW04	Soluble	Solid	DI Leach	
890-4873-5	SW05	Soluble	Solid	DI Leach	
890-4873-6	FS01	Soluble	Solid	DI Leach	
890-4873-7	FS02	Soluble	Solid	DI Leach	
890-4873-8	FS03	Soluble	Solid	DI Leach	
890-4873-9	FS04	Soluble	Solid	DI Leach	
890-4873-10	FS05	Soluble	Solid	DI Leach	
890-4873-11	FS06	Soluble	Solid	DI Leach	
890-4873-12	FS07	Soluble	Solid	DI Leach	
MB 880-56551/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56551/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56551/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4873-1 MS	SW01	Soluble	Solid	DI Leach	
890-4873-1 MSD	SW01	Soluble	Solid	DI Leach	
890-4873-11 MS	FS06	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
 Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
 SDG: 03C1558244

HPLC/IC (Continued)

Leach Batch: 56551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-11 MSD	FS06	Soluble	Solid	DI Leach	

Analysis Batch: 56693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4873-1	SW01	Soluble	Solid	300.0	56551
890-4873-2	SW02	Soluble	Solid	300.0	56551
890-4873-3	SW03	Soluble	Solid	300.0	56551
890-4873-4	SW04	Soluble	Solid	300.0	56551
890-4873-5	SW05	Soluble	Solid	300.0	56551
890-4873-6	FS01	Soluble	Solid	300.0	56551
890-4873-7	FS02	Soluble	Solid	300.0	56551
890-4873-8	FS03	Soluble	Solid	300.0	56551
890-4873-9	FS04	Soluble	Solid	300.0	56551
890-4873-10	FS05	Soluble	Solid	300.0	56551
890-4873-11	FS06	Soluble	Solid	300.0	56551
890-4873-12	FS07	Soluble	Solid	300.0	56551
MB 880-56551/1-A	Method Blank	Soluble	Solid	300.0	56551
LCS 880-56551/2-A	Lab Control Sample	Soluble	Solid	300.0	56551
LCSD 880-56551/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56551
890-4873-1 MS	SW01	Soluble	Solid	300.0	56551
890-4873-1 MSD	SW01	Soluble	Solid	300.0	56551
890-4873-11 MS	FS06	Soluble	Solid	300.0	56551
890-4873-11 MSD	FS06	Soluble	Solid	300.0	56551

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Client Sample ID: SW01

Lab Sample ID: 890-4873-1

Date Collected: 06/27/23 10:00

Matrix: Solid

Date Received: 06/28/23 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 05:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 16:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56819	07/03/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/03/23 12:50	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		1			56693	06/30/23 14:53	CH	EET MID

Client Sample ID: SW02

Lab Sample ID: 890-4873-2

Date Collected: 06/27/23 14:00

Matrix: Solid

Date Received: 06/28/23 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 05:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 16:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56819	07/03/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/03/23 13:12	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		1			56693	06/30/23 15:09	CH	EET MID

Client Sample ID: SW03

Lab Sample ID: 890-4873-3

Date Collected: 06/27/23 14:05

Matrix: Solid

Date Received: 06/28/23 09:16

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	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 05:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 16:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56819	07/03/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56814	07/03/23 13:35	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		1			56693	06/30/23 15:14	CH	EET MID

Client Sample ID: SW04

Lab Sample ID: 890-4873-4

Date Collected: 06/27/23 15:10

Matrix: Solid

Date Received: 06/28/23 09:16

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	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 06:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Client Sample ID: SW04
Date Collected: 06/27/23 15:10
Date Received: 06/28/23 09:16

Lab Sample ID: 890-4873-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 12:35	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		1			56693	06/30/23 15:19	CH	EET MID

Client Sample ID: SW05
Date Collected: 06/27/23 15:15
Date Received: 06/28/23 09:16

Lab Sample ID: 890-4873-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 06:31	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 13:43	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		1			56693	06/30/23 15:24	CH	EET MID

Client Sample ID: FS01
Date Collected: 06/27/23 10:10
Date Received: 06/28/23 09:16

Lab Sample ID: 890-4873-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 06:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 14:06	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		5			56693	06/30/23 15:40	CH	EET MID

Client Sample ID: FS02
Date Collected: 06/27/23 10:15
Date Received: 06/28/23 09:16

Lab Sample ID: 890-4873-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 07:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 14:28	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

Client Sample ID: FS02

Lab Sample ID: 890-4873-7

Date Collected: 06/27/23 10:15

Matrix: Solid

Date Received: 06/28/23 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		10			56693	06/30/23 15:45	CH	EET MID

Client Sample ID: FS03

Lab Sample ID: 890-4873-8

Date Collected: 06/27/23 13:05

Matrix: Solid

Date Received: 06/28/23 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 08:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 14:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		10			56693	06/30/23 15:50	CH	EET MID

Client Sample ID: FS04

Lab Sample ID: 890-4873-9

Date Collected: 06/27/23 13:10

Matrix: Solid

Date Received: 06/28/23 09:16

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	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 08:58	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 15:13	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		5			56693	06/30/23 15:55	CH	EET MID

Client Sample ID: FS05

Lab Sample ID: 890-4873-10

Date Collected: 06/27/23 14:10

Matrix: Solid

Date Received: 06/28/23 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 09:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 15:35	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		5			56693	06/30/23 16:01	CH	EET MID

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Lab Chronicle

Client: Ensolum
 Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
 SDG: 03C1558244

Client Sample ID: FS06

Lab Sample ID: 890-4873-11

Date Collected: 06/27/23 15:20

Matrix: Solid

Date Received: 06/28/23 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 09:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 15:58	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		5			56693	06/30/23 16:06	CH	EET MID

Client Sample ID: FS07

Lab Sample ID: 890-4873-12

Date Collected: 06/27/23 15:25

Matrix: Solid

Date Received: 06/28/23 09:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	56630	06/29/23 14:56	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56626	06/30/23 10:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56716	06/30/23 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			56890	07/03/23 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	56603	06/29/23 12:46	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56748	07/01/23 16:20	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	56551	06/29/23 09:19	KS	EET MID
Soluble	Analysis	300.0		1			56693	06/30/23 16:21	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 224

Job ID: 890-4873-1
SDG: 03C1558244

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

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

Method Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4873-1
SDG: 03C1558244

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 224

Job ID: 890-4873-1
SDG: 03C1558244

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4873-1	SW01	Solid	06/27/23 10:00	06/28/23 09:16	0 - 4
890-4873-2	SW02	Solid	06/27/23 14:00	06/28/23 09:16	0 - 4
890-4873-3	SW03	Solid	06/27/23 14:05	06/28/23 09:16	0 - 4
890-4873-4	SW04	Solid	06/27/23 15:10	06/28/23 09:16	0 - 4
890-4873-5	SW05	Solid	06/27/23 15:15	06/28/23 09:16	0 - 4
890-4873-6	FS01	Solid	06/27/23 10:10	06/28/23 09:16	4
890-4873-7	FS02	Solid	06/27/23 10:15	06/28/23 09:16	4
890-4873-8	FS03	Solid	06/27/23 13:05	06/28/23 09:16	4
890-4873-9	FS04	Solid	06/27/23 13:10	06/28/23 09:16	4
890-4873-10	FS05	Solid	06/27/23 14:10	06/28/23 09:16	4
890-4873-11	FS06	Solid	06/27/23 15:20	06/28/23 09:16	4
890-4873-12	FS07	Solid	06/27/23 15:25	06/28/23 09:16	4

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



Environment Testing
Xenco

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

Chain of Custody

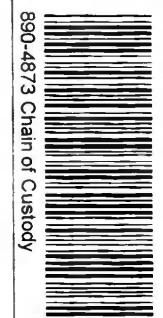
Work Order No: _____

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

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	State of Project:
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Poker Lake Unit 224	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	03C1558244	Due Date:			
Project Location:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:		Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
PO #:		Thermometer ID:	TM0007		
SAMPLE RECEIPT	Temp Blank:	Yes	No		
Samples Received Intact:	Yes	No	Correction Factor:	-0.0	
Cooler Custody Seals:	Yes	No	Temperature Reading:	1.0	
Sample Custody Seals:	Yes	No	Corrected Temperature:	0.8	
Total Containers:					



890-4873 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)	Preservative Codes	Sample Comments
SW01	S	6/27/25	1000	0-4	C	1				None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₅ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPPc	Incident ID: NAPP2310050120
SW02			200	0-4		1					Cost Center: 1138121001
SW03			205	0-4		1					AFE:
SW04			310	0-4		1					
SW05			315	0-4		1					
FS01			1010	4		1					
FS02			1015	4		1					
FS03			105	4		1					
FS04			110	4		1					
FS05			210	4		1					

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA SB As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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 \$35.00 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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4873-1

SDG Number: 03C1558244

Login Number: 4873

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4873-1

SDG Number: 03C1558244

Login Number: 4873

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 06/29/23 10:42 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
 Ensolum
 601 N. Marienfeld St.
 Suite 400
 Midland, Texas 79701
 Generated 8/2/2023 10:34:01 AM

JOB DESCRIPTION

Poker Lake Unit 224
 SDG NUMBER 03C1558244

JOB NUMBER

890-4970-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
8/2/2023 10:34:01 AM

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

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Client: Ensolum
Project/Site: Poker Lake Unit 224

Laboratory Job ID: 890-4970-1
SDG: 03C1558244

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Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
SDG: 03C1558244

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
SDG: 03C1558244

Job ID: 890-4970-1

Laboratory: Eurofins Carlsbad**Narrative****Job Narrative
890-4970-1****Receipt**

The samples were received on 7/20/2023 9:22 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 5.8°C

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58520 recovered below the lower control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58520/33).

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-58634 and analytical batch 880-58963 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS02A (890-4970-3) and (890-4969-A-3-D). 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 880-58217 and analytical batch 880-58468 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 224

Job ID: 890-4970-1
SDG: 03C1558244

Client Sample ID: SW06

Lab Sample ID: 890-4970-1

Date Collected: 07/19/23 10:20

Matrix: Solid

Date Received: 07/20/23 09:22

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/26/23 09:29	07/26/23 15:14	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/26/23 09:29	07/26/23 15:14	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/26/23 09:29	07/26/23 15:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/26/23 09:29	07/26/23 15:14	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/26/23 09:29	07/26/23 15:14	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/26/23 09:29	07/26/23 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/26/23 09:29	07/26/23 15:14	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/26/23 09:29	07/26/23 15:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	65.4		50.4	mg/Kg			08/02/23 10:27	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	65.4		50.4	mg/Kg		07/27/23 08:51	08/01/23 12:14	1
Diesel Range Organics (Over C10-C28)	<50.4	U *	50.4	mg/Kg		07/27/23 08:51	08/01/23 12:14	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/27/23 08:51	08/01/23 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	07/27/23 08:51	08/01/23 12:14	1
o-Terphenyl	111		70 - 130	07/27/23 08:51	08/01/23 12:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.1		4.99	mg/Kg			07/25/23 12:42	1

Client Sample ID: SW07

Lab Sample ID: 890-4970-2

Date Collected: 07/19/23 12:35

Matrix: Solid

Date Received: 07/20/23 09:22

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/26/23 09:29	07/26/23 16:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/26/23 09:29	07/26/23 16:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/26/23 09:29	07/26/23 16:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/26/23 09:29	07/26/23 16:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/26/23 09:29	07/26/23 16:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/26/23 09:29	07/26/23 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/26/23 09:29	07/26/23 16:38	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
SDG: 03C1558244

Client Sample ID: SW07

Lab Sample ID: 890-4970-2

Date Collected: 07/19/23 12:35

Matrix: Solid

Date Received: 07/20/23 09:22

Sample Depth: 0 - 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	07/26/23 09:29	07/26/23 16:38	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			07/27/23 07:33	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			08/02/23 10:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/27/23 08:51	08/01/23 12:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0	mg/Kg		07/27/23 08:51	08/01/23 12:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/27/23 08:51	08/01/23 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	07/27/23 08:51	08/01/23 12:36	1
o-Terphenyl	93		70 - 130	07/27/23 08:51	08/01/23 12:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.1		4.98	mg/Kg			07/25/23 12:47	1

Client Sample ID: FS02A

Lab Sample ID: 890-4970-3

Date Collected: 07/19/23 13:15

Matrix: Solid

Date Received: 07/20/23 09:22

Sample Depth: 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		07/26/23 09:29	07/26/23 16:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 16:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 16:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/26/23 09:29	07/26/23 16:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 16:59	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/26/23 09:29	07/26/23 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	07/26/23 09:29	07/26/23 16:59	1
1,4-Difluorobenzene (Surr)	114		70 - 130	07/26/23 09:29	07/26/23 16:59	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			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	265		49.6	mg/Kg			08/02/23 10:27	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
SDG: 03C1558244

Client Sample ID: FS02A

Lab Sample ID: 890-4970-3

Date Collected: 07/19/23 13:15

Matrix: Solid

Date Received: 07/20/23 09:22

Sample Depth: 5

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		07/27/23 08:51	08/01/23 12:58	1
Diesel Range Organics (Over C10-C28)	265	*-	49.6	mg/Kg		07/27/23 08:51	08/01/23 12:58	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/27/23 08:51	08/01/23 12:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	167	S1+	70 - 130			07/27/23 08:51	08/01/23 12:58	1
o-Terphenyl	177	S1+	70 - 130			07/27/23 08:51	08/01/23 12:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5200		49.6	mg/Kg			07/25/23 12:51	10

Client Sample ID: FS03A

Lab Sample ID: 890-4970-4

Date Collected: 07/19/23 13:25

Matrix: Solid

Date Received: 07/20/23 09:22

Sample Depth: 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		07/26/23 09:29	07/26/23 17:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/26/23 09:29	07/26/23 17:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/26/23 09:29	07/26/23 17:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/26/23 09:29	07/26/23 17:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/26/23 09:29	07/26/23 17:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/26/23 09:29	07/26/23 17:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			07/26/23 09:29	07/26/23 17:20	1
1,4-Difluorobenzene (Surr)	113		70 - 130			07/26/23 09:29	07/26/23 17:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/27/23 07:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	215		49.5	mg/Kg			08/02/23 10:27	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	<49.5	U	49.5	mg/Kg		07/27/23 08:51	08/01/23 13:20	1
Diesel Range Organics (Over C10-C28)	215	*-	49.5	mg/Kg		07/27/23 08:51	08/01/23 13:20	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5	mg/Kg		07/27/23 08:51	08/01/23 13:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			07/27/23 08:51	08/01/23 13:20	1
o-Terphenyl	108		70 - 130			07/27/23 08:51	08/01/23 13:20	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
SDG: 03C1558244

Client Sample ID: FS03A

Lab Sample ID: 890-4970-4

Date Collected: 07/19/23 13:25

Matrix: Solid

Date Received: 07/20/23 09:22

Sample Depth: 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		25.1	mg/Kg			07/25/23 12:56	5

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Surrogate Summary

Client: Ensolum
 Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
 SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-31221-A-1-A MS	Matrix Spike	109	102
880-31221-A-1-B MSD	Matrix Spike Duplicate	110	100
890-4970-1	SW06	103	108
890-4970-2	SW07	103	101
890-4970-3	FS02A	100	114
890-4970-4	FS03A	99	113
LCS 880-58524/1-A	Lab Control Sample	107	101
LCS 880-58524/2-A	Lab Control Sample Dup	122	96
MB 880-58524/5-A	Method Blank	99	89

Surrogate Legend
 BFB = 4-Bromofluorobenzene (Surr)
 DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4969-A-3-E MS	Matrix Spike	101	103
890-4969-A-3-F MSD	Matrix Spike Duplicate	100	100
890-4970-1	SW06	102	111
890-4970-2	SW07	85	93
890-4970-3	FS02A	167 S1+	177 S1+
890-4970-4	FS03A	102	108
LCS 880-58634/2-A	Lab Control Sample	73	84
LCS 880-58634/3-A	Lab Control Sample Dup	75	86
MB 880-58634/1-A	Method Blank	149 S1+	167 S1+

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
SDG: 03C1558244

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58524/5-A
Matrix: Solid
Analysis Batch: 58520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58524

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 11:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 11:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/26/23 09:29	07/26/23 11:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/26/23 09:29	07/26/23 11:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/26/23 09:29	07/26/23 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/26/23 09:29	07/26/23 11:44	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/26/23 09:29	07/26/23 11:44	1

Lab Sample ID: LCS 880-58524/1-A
Matrix: Solid
Analysis Batch: 58520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09277		mg/Kg		93	70 - 130
Toluene	0.100	0.09626		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.08762		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1674		mg/Kg		84	70 - 130
o-Xylene	0.100	0.08390		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-58524/2-A
Matrix: Solid
Analysis Batch: 58520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1036		mg/Kg		104	70 - 130	11	35
Toluene	0.100	0.1173		mg/Kg		117	70 - 130	20	35
Ethylbenzene	0.100	0.1118		mg/Kg		112	70 - 130	24	35
m-Xylene & p-Xylene	0.200	0.2197		mg/Kg		110	70 - 130	27	35
o-Xylene	0.100	0.1100		mg/Kg		110	70 - 130	27	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-31221-A-1-A MS
Matrix: Solid
Analysis Batch: 58520

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0996	0.1008		mg/Kg		101	70 - 130
Toluene	<0.00202	U	0.0996	0.1043		mg/Kg		105	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
SDG: 03C1558244

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

Lab Sample ID: 880-31221-A-1-A MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 58520

Prep Batch: 58524

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00202	U	0.0996	0.09476		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1797		mg/Kg		90	70 - 130
o-Xylene	<0.00202	U	0.0996	0.08933		mg/Kg		90	70 - 130

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

Lab Sample ID: 880-31221-A-1-B MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 58520

Prep Batch: 58524

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00202	U	0.0998	0.09942		mg/Kg		100	70 - 130	1	35
Toluene	<0.00202	U	0.0998	0.1063		mg/Kg		107	70 - 130	2	35
Ethylbenzene	<0.00202	U	0.0998	0.09813		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1883		mg/Kg		94	70 - 130	5	35
o-Xylene	<0.00202	U	0.0998	0.09388		mg/Kg		94	70 - 130	5	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-58634/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 58963

Prep Batch: 58634

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/27/23 08:51	08/01/23 07:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/27/23 08:51	08/01/23 07:24	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/27/23 08:51	08/01/23 07:24	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	149	S1+	70 - 130	07/27/23 08:51	08/01/23 07:24	1
o-Terphenyl	167	S1+	70 - 130	07/27/23 08:51	08/01/23 07:24	1

Lab Sample ID: LCS 880-58634/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 58963

Prep Batch: 58634

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	928.3		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	668.8	*	mg/Kg		67	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
SDG: 03C1558244

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

Lab Sample ID: LCS 880-58634/2-A
Matrix: Solid
Analysis Batch: 58963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58634

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	73		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-58634/3-A
Matrix: Solid
Analysis Batch: 58963

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58634

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	995.4		mg/Kg		100	70 - 130	7		20
Diesel Range Organics (Over C10-C28)	1000	723.1		mg/Kg		72	70 - 130	8		20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	75		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 890-4969-A-3-E MS
Matrix: Solid
Analysis Batch: 58963

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 58634

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	996	918.5		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)	64.9	*-	996	858.8		mg/Kg		80	70 - 130	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	101		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 890-4969-A-3-F MSD
Matrix: Solid
Analysis Batch: 58963

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 58634

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	996	813.1		mg/Kg		77	70 - 130	12		20
Diesel Range Organics (Over C10-C28)	64.9	*-	996	840.0		mg/Kg		78	70 - 130	2		20

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

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
SDG: 03C1558244

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58217/1-A
Matrix: Solid
Analysis Batch: 58468

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/25/23 11:37	1

Lab Sample ID: LCS 880-58217/2-A
Matrix: Solid
Analysis Batch: 58468

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.2		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-58217/3-A
Matrix: Solid
Analysis Batch: 58468

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	242.6		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-4968-A-21-B MS
Matrix: Solid
Analysis Batch: 58468

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	44.1	F1	251	328.6	F1	mg/Kg		114	90 - 110

Lab Sample ID: 890-4968-A-21-C MSD
Matrix: Solid
Analysis Batch: 58468

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	44.1	F1	251	328.9	F1	mg/Kg		114	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
SDG: 03C1558244

GC VOA

Analysis Batch: 58520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Total/NA	Solid	8021B	58524
890-4970-2	SW07	Total/NA	Solid	8021B	58524
890-4970-3	FS02A	Total/NA	Solid	8021B	58524
890-4970-4	FS03A	Total/NA	Solid	8021B	58524
MB 880-58524/5-A	Method Blank	Total/NA	Solid	8021B	58524
LCS 880-58524/1-A	Lab Control Sample	Total/NA	Solid	8021B	58524
LCS 880-58524/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58524
880-31221-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	58524
880-31221-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58524

Prep Batch: 58524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Total/NA	Solid	5035	
890-4970-2	SW07	Total/NA	Solid	5035	
890-4970-3	FS02A	Total/NA	Solid	5035	
890-4970-4	FS03A	Total/NA	Solid	5035	
MB 880-58524/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58524/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-58524/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31221-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-31221-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 58609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Total/NA	Solid	Total BTEX	
890-4970-2	SW07	Total/NA	Solid	Total BTEX	
890-4970-3	FS02A	Total/NA	Solid	Total BTEX	
890-4970-4	FS03A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Total/NA	Solid	8015NM Prep	
890-4970-2	SW07	Total/NA	Solid	8015NM Prep	
890-4970-3	FS02A	Total/NA	Solid	8015NM Prep	
890-4970-4	FS03A	Total/NA	Solid	8015NM Prep	
MB 880-58634/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58634/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCS 880-58634/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4969-A-3-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4969-A-3-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Total/NA	Solid	8015B NM	58634
890-4970-2	SW07	Total/NA	Solid	8015B NM	58634
890-4970-3	FS02A	Total/NA	Solid	8015B NM	58634
890-4970-4	FS03A	Total/NA	Solid	8015B NM	58634
MB 880-58634/1-A	Method Blank	Total/NA	Solid	8015B NM	58634
LCS 880-58634/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58634

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QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
SDG: 03C1558244

GC Semi VOA (Continued)

Analysis Batch: 58963 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-58634/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58634
890-4969-A-3-E MS	Matrix Spike	Total/NA	Solid	8015B NM	58634
890-4969-A-3-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	58634

Analysis Batch: 59094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Total/NA	Solid	8015 NM	
890-4970-2	SW07	Total/NA	Solid	8015 NM	
890-4970-3	FS02A	Total/NA	Solid	8015 NM	
890-4970-4	FS03A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Soluble	Solid	DI Leach	
890-4970-2	SW07	Soluble	Solid	DI Leach	
890-4970-3	FS02A	Soluble	Solid	DI Leach	
890-4970-4	FS03A	Soluble	Solid	DI Leach	
MB 880-58217/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58217/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58217/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4968-A-21-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4968-A-21-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 58468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4970-1	SW06	Soluble	Solid	300.0	58217
890-4970-2	SW07	Soluble	Solid	300.0	58217
890-4970-3	FS02A	Soluble	Solid	300.0	58217
890-4970-4	FS03A	Soluble	Solid	300.0	58217
MB 880-58217/1-A	Method Blank	Soluble	Solid	300.0	58217
LCS 880-58217/2-A	Lab Control Sample	Soluble	Solid	300.0	58217
LCSD 880-58217/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58217
890-4968-A-21-B MS	Matrix Spike	Soluble	Solid	300.0	58217
890-4968-A-21-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	58217

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
SDG: 03C1558244

Client Sample ID: SW06

Lab Sample ID: 890-4970-1

Date Collected: 07/19/23 10:20

Matrix: Solid

Date Received: 07/20/23 09:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58524	07/26/23 09:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/26/23 15:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58609	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			59094	08/02/23 10:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58634	07/27/23 08:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58963	08/01/23 12:14	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58217	07/21/23 09:38	KS	EET MID
Soluble	Analysis	300.0		1			58468	07/25/23 12:42	CH	EET MID

Client Sample ID: SW07

Lab Sample ID: 890-4970-2

Date Collected: 07/19/23 12:35

Matrix: Solid

Date Received: 07/20/23 09:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	58524	07/26/23 09:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/26/23 16:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58609	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			59094	08/02/23 10:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	58634	07/27/23 08:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58963	08/01/23 12:36	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58217	07/21/23 09:38	KS	EET MID
Soluble	Analysis	300.0		1			58468	07/25/23 12:47	CH	EET MID

Client Sample ID: FS02A

Lab Sample ID: 890-4970-3

Date Collected: 07/19/23 13:15

Matrix: Solid

Date Received: 07/20/23 09:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58524	07/26/23 09:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/26/23 16:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58609	07/27/23 07:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			59094	08/02/23 10:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58634	07/27/23 08:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58963	08/01/23 12:58	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58217	07/21/23 09:38	KS	EET MID
Soluble	Analysis	300.0		10			58468	07/25/23 12:51	CH	EET MID

Client Sample ID: FS03A

Lab Sample ID: 890-4970-4

Date Collected: 07/19/23 13:25

Matrix: Solid

Date Received: 07/20/23 09:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	58524	07/26/23 09:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58520	07/26/23 17:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58609	07/27/23 07:33	SM	EET MID

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Lab Chronicle

Client: Ensolum
 Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
 SDG: 03C1558244

Client Sample ID: FS03A
Date Collected: 07/19/23 13:25
Date Received: 07/20/23 09:22

Lab Sample ID: 890-4970-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			59094	08/02/23 10:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	58634	07/27/23 08:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58963	08/01/23 13:20	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58217	07/21/23 09:38	KS	EET MID
Soluble	Analysis	300.0		5			58468	07/25/23 12:56	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
SDG: 03C1558244

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

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Method Summary

Client: Ensolum
Project/Site: Poker Lake Unit 224

Job ID: 890-4970-1
SDG: 03C1558244

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 224

Job ID: 890-4970-1
SDG: 03C1558244

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4970-1	SW06	Solid	07/19/23 10:20	07/20/23 09:22	0 - 4
890-4970-2	SW07	Solid	07/19/23 12:35	07/20/23 09:22	0 - 4
890-4970-3	FS02A	Solid	07/19/23 13:15	07/20/23 09:22	5
890-4970-4	FS03A	Solid	07/19/23 13:25	07/20/23 09:22	5

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Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

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

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:	Poker Lake Unit 224	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	03C1558244	Due Date:			
Project Location:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:					
PO #:					
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Parameters		
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Thermometer ID:	N/A		
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Correction Factor:	-0.2		
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Temperature Reading:	6.8		
Total Containers:		Corrected Temperature:	6.8		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes	Sample Comments
SW06	S	7/19/2023	10:20	0-4	Comp	1	CHLORIDES (EPA: 3000.0)	None NO	DI Water: H ₂ O
SW07	S	7/19/2023	12:35	0-4	Comp	1	TPH (8015)	Cool: Cool	MeOH: Me
FS02A	S	7/19/2023	1:15	5	Comp	1	BTEX (8021)	HCL: HC	HNO ₃ : HN
FS03A	S	7/19/2023	1:25	5	Comp	1		H ₂ SO ₄ : H ₂	NaOH: Na
CUM									

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 SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631 / 245 / 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
<i>[Signature]</i>	<i>[Signature]</i>	7:20:23 9/22			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4970-1

SDG Number: 03C1558244

Login Number: 4970

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4970-1

SDG Number: 03C1558244

Login Number: 4970

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 07/21/23 10:58 AM

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

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APPENDIX E

NMOCD Correspondance

From: [Hamlet, Robert, EMNRD](#)
To: [Collins, Melanie](#)
Cc: [Green, Garrett J](#); [Ben Bellil](#); [Tacoma Morrissey](#); [DelawareSpills /SM](#); [Bratcher, Michael, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Subject: (Extension Approval) - XTO - Poker Lake Unit 224 - Incident Number nAPP2310050120
Date: Wednesday, June 28, 2023 5:26:35 PM
Attachments: [image003.png](#)

[****EXTERNAL EMAIL****]

RE: Incident #**NAPP2310050120**

Melanie,

Your request for an extension to **September 1st, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Wednesday, June 28, 2023 12:50 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Green, Garrett J <garrett.green@exxonmobil.com>; bbelill@ensolum.com; Tacoma Morrissey <tmorrissey@ensolum.com>; DelawareSpills /SM <DelawareSpills@exxonmobil.com>
Subject: [EXTERNAL] XTO - Extension Request - Poker Lake Unit 224 - Incident Number nAPP2310050120

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

All,

XTO is requesting an extension for the current deadline of July 3, 2023 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Poker Lake Unit 224 (Incident Number nAPP2310050120). The release occurred on April 4, 2023, and initial site assessment and delineation activities have been completed. Excavation activities were completed on June 27, 2023,

and laboratory analytical results are currently pending. In order to review laboratory analytical results and complete additional remediation activities or submit a remediation work plan or closure report, XTO requests an extension until September 1, 2023.

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Friday, July 14, 2023 9:44 AM
To: Collins, Melanie <melanie.collins@exxonmobil.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Updated XTO - Sampling Notification (Week of 7/17/23 - 7/21/23)

External Email – Think Before You Click

Melanie,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. The OCD has received your notification. When reporting sampling at multiple locations it is required to provide and date and time for each location. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Thursday, July 13, 2023 2:56 PM
To: Enviro, OCD, EMNRD OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Cc: spills@slo.state.nm.us; Green, Garrett J <garrett.green@exxonmobil.com>
Subject: [EXTERNAL] Updated XTO - Sampling Notification (Week of 7/17/23 - 7/21/23)

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

All,

XTO plans to complete final sampling activities at the sites listed below for the week of July 17, 2023.

Tuesday 7/18/23

- PLU 183Q / nAPP2315133557
- Remuda 500 Tank Battery / nAPP2317850727 (SLO)

Wednesday 7/19/23

- PLU 224 / nAPP2310050120
- Remuda 500 Tank Battery / nAPP2317850727 (SLO)

Thursday 7/20/23

- PLU 224 / nAPP2310050120
- James Ranch Unit 19 Battery / nAPP2317142256 (SLO)

Friday 7/21/23

- James Ranch Unit 19 Battery / nAPP2317142256 (SLO)

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

From: [Green, Garrett J](#)
To: [Enviro, OCD, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Cc: [Ben Bellil](#); [Tacoma Morrissey](#); [DelawareSpills /SM](#)
Subject: XTO - Sampling Notification (Week of 6/19/23 - 6/23/23)
Date: Friday, June 16, 2023 10:18:06 AM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of June 19, 2023.

Thursday

- PLU 224 / nAPP2310050120
- PLU 183Q / nAPP2315133557

Friday

- PLU 224 / nAPP2310050120
- PLU 183Q / nAPP2315133557

Thank you,

Thank you,

Garrett Green

Environmental Coordinator

Delaware Business Unit

(575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From: [Collins, Melanie](#)
To: [ocd.enviro \(ocd.enviro@emnrd.nm.gov\)](mailto:ocd.enviro@emnrd.nm.gov); [Bratcher, Michael, EMNRD \(mike.bratcher@emnrd.nm.gov\)](mailto:Bratcher, Michael, EMNRD (mike.bratcher@emnrd.nm.gov)); [Hamlet, Robert, EMNRD \(Robert.Hamlet@emnrd.nm.gov\)](mailto:Hamlet, Robert, EMNRD (Robert.Hamlet@emnrd.nm.gov)); [Harimon, Jocelyn, EMNRD \(Jocelyn.Harimon@emnrd.nm.gov\)](mailto:Harimon, Jocelyn, EMNRD (Jocelyn.Harimon@emnrd.nm.gov))
Cc: [DelawareSpills /SM](#); [Ben Belill](#); [Green, Garrett J](#)
Subject: XTO - Sampling Notification (Week of 6/26/23 - 6/30/23)
Date: Wednesday, June 21, 2023 5:35:44 PM
Attachments: [image001.png](#)

[****EXTERNAL EMAIL****]

All,

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

Monday

- PLU 224 / nAPP2310050120
- PLU 183Q / nAPP2315133557

Tuesday

- PLU 183Q / nAPP2315133557
- PLU 224 / nAPP2310050120

Wednesday

- PLU 147 / NRM2004445859

Thursday

- PLU 147 / NRM2004445859

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 586580

QUESTIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 586580
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310050120
Incident Name	NAPP2310050120 POKER LAKE UNIT 224 @ H-07-24S-30E
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	POKER LAKE UNIT 224
Date Release Discovered	04/04/2023
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 2 BBL Recovered: 0 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 13 BBL Recovered: 1 BBL Lost: 12 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 586580

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 586580
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEEnvNotifications@exxonmobil.com Date: 05/19/2026
--	--

Sante Fe Main Office
Phone: (505) 476-3441

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<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 586580

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 586580
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	7380
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	582
GRO+DRO (EPA SW-846 Method 8015M)	582
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	06/23/2023
On what date will (or did) the final sampling or liner inspection occur	07/19/2023
On what date will (or was) the remediation complete(d)	07/19/2023
What is the estimated surface area (in square feet) that will be reclaimed	1394
What is the estimated volume (in cubic yards) that will be reclaimed	258
What is the estimated surface area (in square feet) that will be remediated	1394
What is the estimated volume (in cubic yards) that will be remediated	258

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 586580

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 586580
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 05/19/2026
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 586580

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 586580
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 586580

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 586580
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	473667
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/20/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1394
What was the total volume (cubic yards) remediated	258
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1394
What was the total volume (in cubic yards) reclaimed	258
Summarize any additional remediation activities not included by answers (above)	Site assessment and excavation activities were conducted at the Site to address the April 2023 release of crude oil and produced water. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. XTO will backfill the excavation with topsoil material purchased locally and recontour the Site to match pre-existing site conditions. The area will be seeded this Fall with a BLM-approved seed mixture. XTO believes remedial actions completed at the Site have been protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2310050120.

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 05/19/2026
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QUESTIONS, Page 7

Action 586580

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 586580
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	1394
What was the total volume of replacement material (in cubic yards) for this site	258
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	05/30/2026
Summarize any additional reclamation activities not included by answers (above)	Following backfill activities, the disturbed area was contoured to match the surrounding topography and the surface was prepared for seeding. Upon confirmation that the excavation was backfilled with non-waste containing material, the disturbed pasture area will be seeded with a certified weed-free seed mix. The BLM Seed Mix #2 will be used to seed the Site. The seed mix will be applied via drill seeding. The Site will be monitored for vegetation growth to ensure that reclamation activities were successful.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 05/19/2026

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Action 586580

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 586580
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 586580

CONDITIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 586580
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Reclamation Report for Incident #nAPP2310050120 POKER LAKE UNIT 224, thank you. This Reclamation Report is approved.	5/21/2026