



September 30, 2024

New Mexico Oil Conservation Division

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

**Re: Reclamation Report
Poker Lake Unit 102
Incident Number nAPP2315334597
Eddy County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Reclamation Report* to document assessment, excavation, soil sampling, and reclamation activities performed at the Poker Lake Unit 102 (Site). The purpose of the Site assessment, excavation, soil sampling, and reclamation activities was to address impacts to soil resulting from a release of crude oil and produced water at the Site. Based on the excavation activities and analytical results from the soil sampling events, XTO is submitting this *Reclamation Report*, describing remediation and reclamation that has occurred and requesting reclamation closure for Incident Number nAPP2315334597.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 25, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.19291°, -103.83618°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 21, 2023, internal corrosion of a flowline resulted in the release of approximately 9 barrels (bbls) of crude oil and 62 bbls of produced water into the adjacent pasture west of the pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 8 bbls of crude oil and 7 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) immediately via email and subsequently submitted a Notification of Release (NOR) on June 5, 2023, and submitted an Initial C-141 Application (C-141) on June 5, 2023. The release was assigned Incident Number nAPP2315334597.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below and potential 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 ACTIVITIES AND ANALYTICAL RESULTS

On June 19, 2023, site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Nine delineation soil samples (SS01 through SS09) were collected from a depth of 0.5 feet bgs within and around the release extent to assess the lateral extent of the release. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed, and a photographic log is included in Appendix B

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Testing (Eurofins) in Carlsbad, New Mexico for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0 or SM4500.

Laboratory analytical results for preliminary soil samples SS01 through SS05, collected within the release area, indicated that TPH-GRO/TPH-DRO, TPH, and/or chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary soil samples SS06 through SS09, collected around the release extent, indicated all COC concentrations were compliant with the Closure Criteria and reclamation requirement, and successfully defined the lateral extent of the release. Based on visible staining in the release area and laboratory analytical results additional delineation and excavation activities were warranted.

DELINEATION ACTIVITIES

On July 13, 2023, Ensolum personnel were at the Site to conduct delineation activities. Five boreholes (BH01 through BH05) were advanced via hand auger in the locations of SS01 through SS05, respectively, to assess the vertical extent of impacted soil. The boreholes were advanced to depths ranging from 1-foot to 3 feet bgs. Delineation soil samples were collected from each borehole at depths ranging from 1-foot to 3 feet bgs. Soil from the boreholes was field screened for VOCs and chloride. Field screening results and observations for the soil samples were logged on lithologic soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

FEDERAL LAND ACCESS

Since the release occurred in a pasture area managed by BLM, XTO submitted a Form 3160-5 (Sundry Form) to request access to pasture. BLM requested an archeology survey prior to approval of the Sundry. An Archaeological Records Management System (ARMS) review was conducted by Beaver Creek Archaeology (BCA), and results indicated two protected areas existed near the proposed project area. Results of the ARMS survey review and a proposal to use avoidance buffers around the known protected areas were submitted to the BLM on October 4, 2023. XTO received an approved sundry,

granting access to complete remediation, on January 26, 2024. Results of the ARMS survey and the approved sundry are presented in Appendix D.

EXCAVATION ACTIVITIES

In February 2024, following land access approval, Ensolum personnel returned to the Site to oversee excavation activities. Fencing was installed to ensure the avoidance buffers stipulated in the ARMS survey and approved Sundry were enforced. Impacted soil was excavated from the release area as indicated by visible staining and laboratory analytical results for the delineation soil samples. Excavation activities were performed using a track-mounted backhoe and transport vehicles. The excavation occurred in the pasture area west of the pad. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 1-foot to 4 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Due to the estimated size of the excavation, lack of sensitive receptors at the Site, and depth to groundwater estimated to be greater than 100 feet bgs, XTO submitted a soil sampling variance request for the frequency of excavation confirmation samples. XTO proposed to collect five-point composite samples at a sampling frequency of every 400 square feet from the floor and sidewall of the excavation. The proposed sampling frequency was estimated to reduce the total number of floor samples from approximately 68 samples to approximately 34 samples. NMOCD approved the soil sampling variance request on February 16, 2024. The NMOCD correspondence is included in Appendix E. Composite soil samples FS01 through FS31 were collected from the floor of the excavation at depths ranging from 4 feet to 5 feet bgs. Composite soil samples SW01 through SW12 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 5 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above at Eurofins or Cardinal Laboratories (Cardinal) in Hobbs, New Mexico.

Laboratory analytical results for confirmation soil samples FS04, FS06 through FS16, FS18 through FS20, FS23 through FS27, FS29 through FS31, SW01 through SW03, SW06 through SW08, SW10, and SW12 indicated TPH-GRO/TPH-DRO, TPH, and/or chloride concentrations exceeded the Closure Criteria.

Between March 6 and March 22, 2024, Ensolum personnel returned to the Site to oversee additional excavation activities to address the remaining impacted soil. The impacted soil was excavated laterally and vertically to a total depth of 7 feet bgs. Composite soil samples FS04A, FS06A through FS16A, FS18A through FS20A, FS23A through FS27A, FS29A through FS31A, SW01A through SW03A, SW06A through SW08A, SW10A/SW10B, and SW12, collected at depths ranging from ground surface to 7 feet bgs were handled as described above at Cardinal in Hobbs, New Mexico. The final excavation extent and confirmation soil sample locations are presented on Figure 3. The final excavation area measured approximately 12,000 square feet. A total of approximately 2,500 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. Following completion of the confirmation soil sampling, the excavation was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the final confirmation floor and sidewall soil samples indicated all COCs were compliant with the Closure Criteria and/or reclamation requirement where applicable. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix F.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the May 21, 2023, release of crude oil and produced water. Laboratory analytical results for the final confirmation soil samples indicate all COCs were compliant with the Closure Criteria and reclamation requirement, where applicable. Based on the soil sample analytical results, no further remediation was required. XTO backfilled the excavation with non-waste containing topsoil, purchased locally, and recontoured the Site to match pre-existing site conditions. The disturbed pasture area was re-seeded with BLM seed mixture #2 for sandy sites, as stipulated in the approved Sundry.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believed these remedial actions were protective of human health, the environment, and groundwater. Based on the delineation and excavation soil sample analytical results, a *Closure Request* was submitted to the NMOCD on June 28, 2024. The NMOCD approved the *Closure Request* on July 2, 2024.

RECLAMATION ACTIVITIES

The excavation measured approximately 12,000 square feet. A total of approximately 2,500 cubic yards of impacted soil were removed during the excavation 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 pre-existing conditions. The excavation area in the pasture was 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 4.

Two representative 5-point composite samples (BF01 and BF02) were collected from the topsoil and caliche base backfill material on June 20, 2024, respectively. The backfill soil samples were handled and analyzed by the same methods described above at Cardinal Laboratories (Cardinal) in Hobbs, New Mexico.

Laboratory analytical results for the backfill soil samples confirmed compliance with NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with 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 F.

On August 29, 2024, the Site was seeded with BLM seed mix #2 for sandy sites at the rate specified below, in pounds of pure live seed (PLS) per acre, as stipulated in the approved sundry.

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 was applied via drill seeding. Photographs of the seeding of the reclaimed release area are provided in the photographic log in Appendix B.

VEGETATION MONITORING

XTO Energy, Inc
Reclamation Report
Poker Lake Unit 102



The Site will be monitored for vegetation growth to verify 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

Based on the reclamation activities completed to date and proposed vegetation monitoring plan described above, XTO respectfully requests approval of this *Reclamation Report* and a status update to *Reclamation Report Approved, Pending submission of Re-Vegetation Report* for Incident nAPP2315334597.

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 "D.A. McInnis".

David A. McInnis
Project Geologist

A handwritten signature in black ink, appearing to read "Aimee Cole".

Aimee Cole
Senior Managing Scientist

cc: Colton Brown, XTO
Kaylan Dirkx, XTO
BLM

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Excavation Extent / Reclamation Area
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Land Access References
Appendix E	NMOCD Correspondence

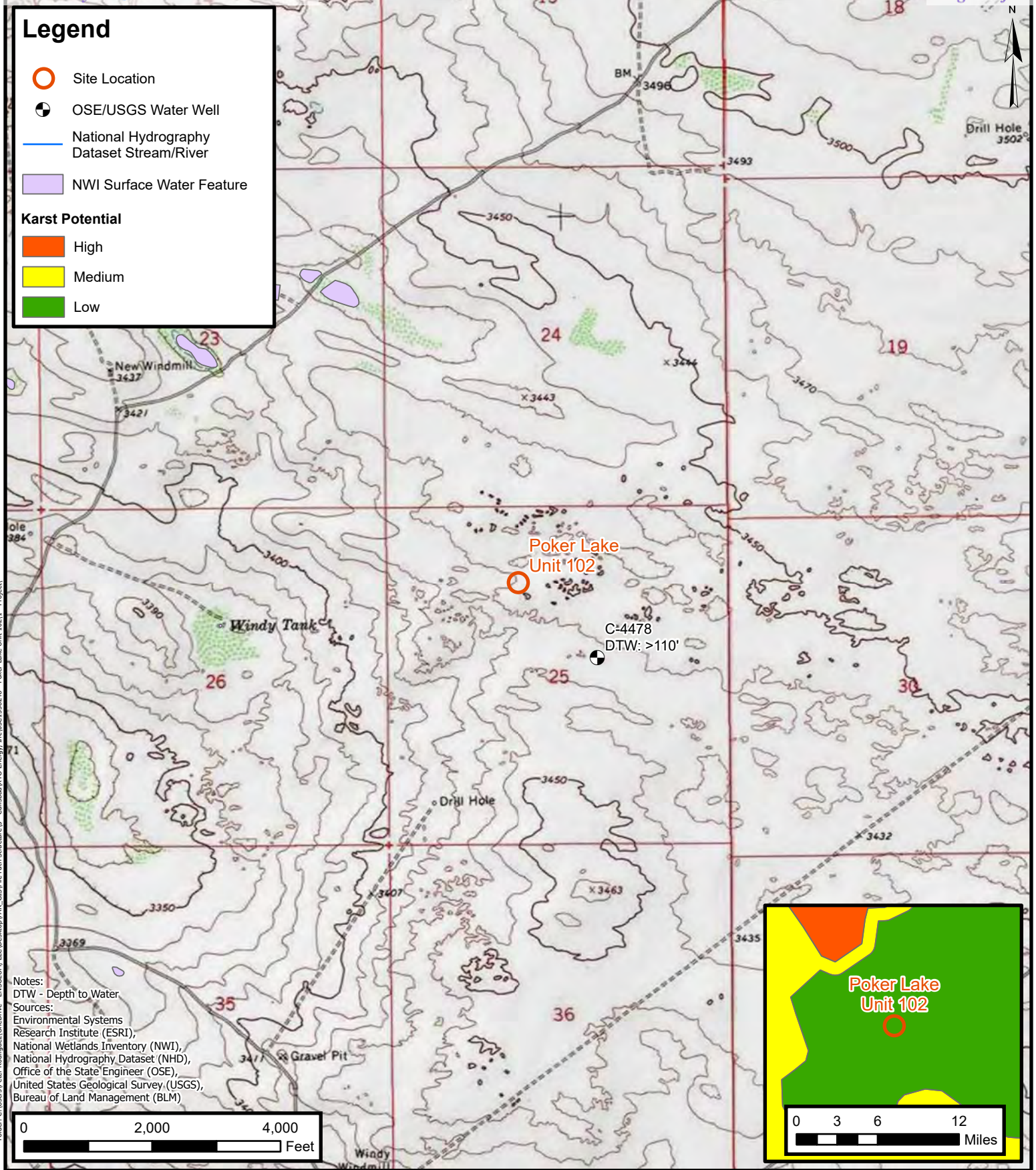
XTO Energy, Inc
Reclamation Report
Poker Lake Unit 102



Appendix F Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES



Site Receptor Map

XTO Energy, Inc
Poker Lake Unit 102
Incident Number: NAPP2315334597
Unit C, Sec 25, T24S, R30E
Eddy County, New Mexico

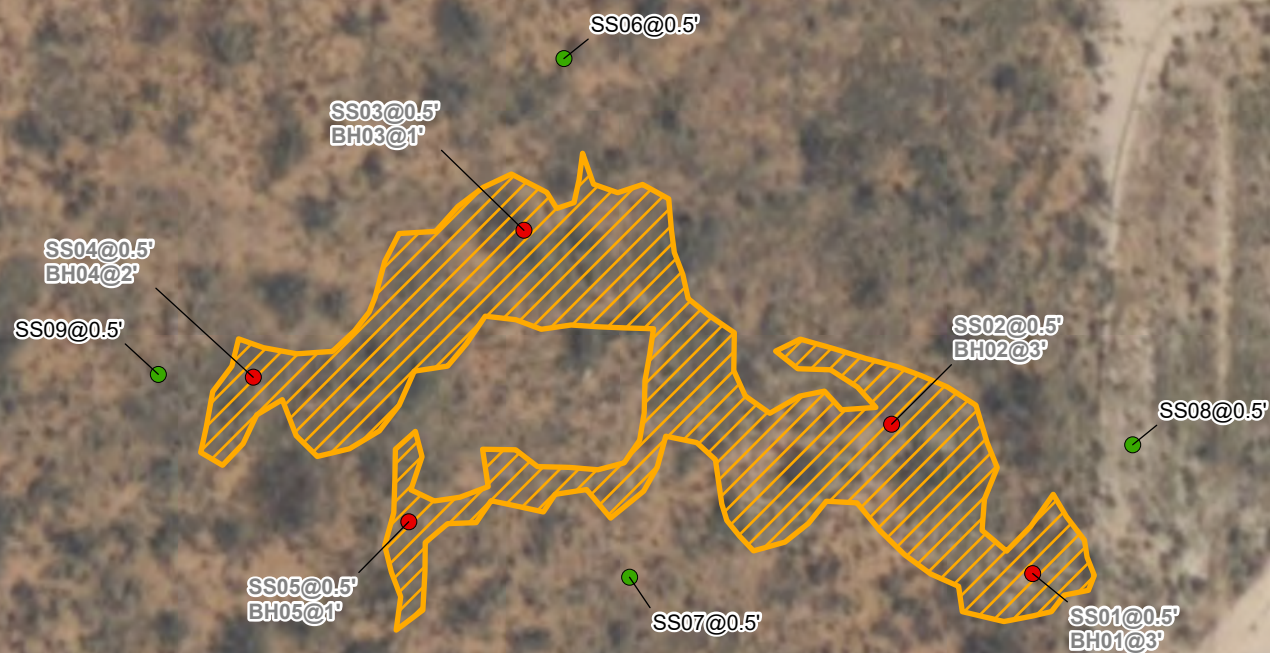
FIGURE

1



Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Release Extent



Notes:
 Sample ID @ Depth Below Ground Surface
 Grey text indicates soil sample removed during excavation activities.
 Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement, where applicable.

0 50 100 Feet

Source:
Bing Maps



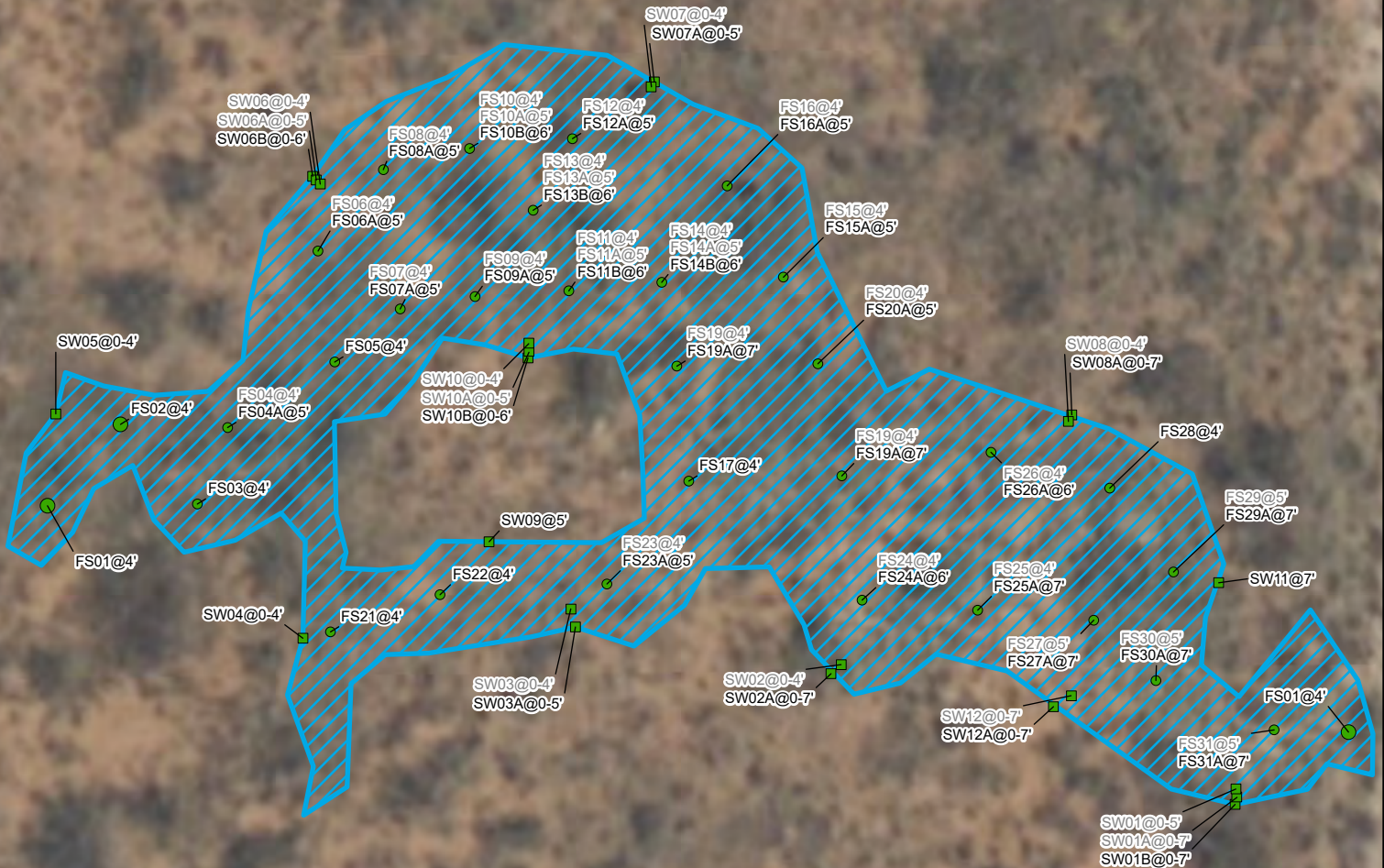
Delineation Soil Sample Locations

XTO Energy, Inc
 Poker Lake Unit 102
 Incident Number: NAPP2315334597
 Unit C, Sec 25, T24S, R30E
 Eddy County, New Mexico

FIGURE
2

Legend

- Excavation Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- ▨ Excavation Extent



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

0 30 60 Feet

Source:
Bing Maps



Excavation Soil Sample Locations

XTO Energy, Inc
Poker Lake Unit 102
Incident Number: NAPP2315334597
Unit C, Sec 25, T24S, R30E
Eddy County, New Mexico

FIGURE

3



Excavation Extent / Reclamation Area

XTO Energy, Inc
Poker Lake Unit 102
Incident Number: NAPP2315334597
Unit C, Sec 25, T24S, R30E
Eddy County, New Mexico

FIGURE
4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Poker Lake Unit 102
 XTO Energy, Inc
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	06/19/2023	0.5	0.0630	8.48	2020	7060	1200	9,080	10300	387
BH01	07/13/2023	3	0.413	27.9	2,350	13,000	738	15,300	16,100	12,500
SS02	06/19/2023	0.5	<0.00200	0.611	728	10200	1500	10,928	12400	6,350
BH02	07/13/2023	3	0.00238	0.107	<50.1	4,480	257	4,480	4,740	8,100
SS03	06/19/2023	0.5	<0.00198	<0.00396	<50.0	867	112	867	979	3,900
BH03	07/13/2023	1	<0.00201	0.0419	<50.4	2,210	131	2,210	2,340	442
SS04	06/19/2023	0.5	<0.0996	2.57	573	6670	1030	7,243	8270	518
BH04	07/13/2023	2	<0.00199	0.110	60.5	906	73.9	9,670	1,040	700
SS05	06/19/2023	0.5	<0.00200	0.557	1760	11600	2100	13,360	15500	3,470
BH05	07/13/2023	1	<0.00198	0.143	205	4,580	260	4,790	5,050	318
SS06	06/19/2023	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	73.3
SS07	06/19/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	35.8
SS08	06/19/2023	0.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	46.6
SS09	06/19/2023	0.5	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	27.1
Confirmation Soil Samples										
FS01	02/22/2024	4	<0.00199	<0.00398	<50.1	75.0	<50.1	75.0	75.0	3,250
FS02	02/22/2024	4	<0.00201	<0.00402	<50.0	89.8	<50.0	89.8	89.8	8,440
FS03	02/22/2024	4	<0.00202	<0.00403	<99.1	423	<99.1	423	423	7,210
FS04	02/22/2024	4	<0.00199	<0.00398	102	893	<99.0	995	995	25,500
FS04A	03/06/2024	5	<0.050	<0.300	<10.0	54.4	<10.0	54.4	54.4	11,600
FS05	02/22/2024	4	<0.00200	<0.00399	<99.9	595	<99.9	595	595	16,000
FS06	02/22/2024	4	<0.00198	<0.00396	<100	1070	<100	1,070	1,070	16,600
FS06A	03/07/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	11,600
FS07	02/22/2024	4	<0.00201	<0.00402	<50.4	202	<50.4	202	202	22,200
FS07A	03/07/2024	5	<0.050	<0.300	<10.0	20.6	<10.0	20.6	20.6	18,000
FS08	02/22/2024	4	<0.00202	<0.00404	<253	1920	<253	1,920	1,920	22,500
FS08A	03/07/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	18,800
FS09	02/22/2024	4	<0.00200	<0.00399	<99.4	800	<99.4	800	800	25,900
FS09A	03/07/2024	5	<0.050	<0.300	<10.0	17.0	<10.0	17.0	17.0	16,600
FS10	02/22/2024	4	<0.00198	<0.00396	<49.9	82.3	<49.9	82	82.3	35,800
FS10A	03/07/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	28,800
FS10B	03/22/2024	6	<0.050	<0.300	<10.0	<0.10	<10.0	<10.0	<10.0	5,120



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Poker Lake Unit 102
 XTO Energy, Inc
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS11	02/22/2024	4	<0.00200	<0.00400	<99.7	643	<99.7	643	643	23,100
FS11A	03/08/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	40,800
FS11B	03/22/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	14,000
FS12	02/22/2024	4	<0.00199	<0.00398	<100	527	<100	527	527	30,700
FS12A	03/07/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,800
FS13	02/22/2024	4	<0.00201	<0.00402	<50.5	266	<50.5	266	266	38,900
FS13A	03/07/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	31,600
FS13B	03/22/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	11,900
FS14	02/22/2024	4	<0.00202	<0.00403	<101	1250	<101	1,250	1,250	37,600
FS14A	03/08/2024	5	<0.050	<0.300	<10.0	45.8	<10.0	46	45.8	24,400
FS14B	03/22/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,300
FS15	02/22/2024	4	<0.00201	<0.00402	<251	2010	<251	2,010	2,010	32,500
FS15A	03/08/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,700
FS16	02/22/2024	4	<0.00201	<0.00402	<49.7	66.2	<49.7	66	66.2	23,000
FS16A	03/08/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,400
FS17	02/22/2024	4	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	13,800
FS18	02/22/2024	4	<0.00199	<0.00398	<50.4	373	<50.4	373	373	37,300
FS18A	03/08/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,000
FS19	02/22/2024	4	<0.00198	0.0465	314	3520	<249	3,830	3,830	26,500
FS19A	03/08/2024	7	<0.050	<0.300	<10.0	64.3	<10.0	64.3	64.3	13,800
FS20	02/22/2024	4	<0.00200	<0.00399	<99.1	903	<99.1	903	903	46,200
FS20A	03/08/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	15,800
FS21	02/22/2024	4	<0.00199	<0.00398	<49.8	109	<49.8	109	109	16,600
FS22	02/22/2024	4	<0.00201	0.0236	<50.3	260	<50.3	260	260	12,600
FS23	02/22/2024	4	<0.00202	<0.00403	<50.1	135	<50.1	135	135	26,100
FS23A	03/06/2024	5	<0.050	<0.300	<10.0	21.1	<10.0	21.1	21.1	6,000
FS24	02/22/2024	4	<0.00199	0.0696	<505	10500	<505	10,500	10,500	38,600
FS24A	03/08/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,120
FS25	02/22/2024	4	<0.00200	0.0735	<505	8400	<505	8,400	8,400	39,300
FS25A	03/07/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16,000
FS26	02/22/2024	4	<0.00198	0.0892	<248	2800	<248	2,800	2,800	37,500
FS26A	03/08/2024	6	<0.050	<0.300	<10.0	13.4	<10.0	13.4	13.4	2,400
FS27	02/22/2024	5	<0.00201	0.0527	<249	1420	<249	1,420	1,420	30,400
FS27A	03/07/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,200
FS28	02/22/2024	5	<0.00202	<0.00404	<49.7	823	<49.7	823	823	4,220



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Poker Lake Unit 102
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS29	02/22/2024	5	<0.00200	0.0780	<249	1390	<249	1,390	1,390	30,300
FS29A	03/07/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,280
FS30	02/22/2024	5	<0.00198	0.137	<252	1890	<252	1,890	1,890	28,400
FS30A	03/07/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,440
FS31	02/22/2024	5	<0.00200	0.0724	<251	2320	<251	2,320	2,320	11,900
FS31A	03/07/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	15,600
SW01	02/23/2024	0-5	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	110
SW01A	03/08/2024	0-7	<0.050	<0.300	<10.0	196	49.5	196	245.5	336
SW01B	03/22/2024	0-7	<0.050	<0.300	<10.0	17.8	<10.0	17.8	17.8	192
SW02	02/23/2024	0-4	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	115
SW02A	03/08/2024	0-7	<0.050	<0.300	<10.0	22.9	<10.0	22.9	22.9	160
SW03	02/23/2024	0-4	<0.00202	<0.00403	<50.1	<50.1	<50.1	<50.1	<50.1	225
SW03A	03/08/2024	0-5	<0.050	<0.300	<10.0	28.9	<10.0	29	28.9	448
SW04	02/23/2024	0-4	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	288
SW05	02/23/2024	0-4	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	173
SW06	02/23/2024	0-4	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	<50.5	123
SW06A	03/08/2024	0-5	<0.050	<0.300	<10.0	15.0	<10.0	15.0	15.0	352
SW06B	03/22/2024	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW07	02/23/2024	0-4	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	171
SW07A	03/08/2024	0-5	<0.050	<0.3000	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW08	02/23/2024	0-4	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	<49.7	234
SW08A	03/08/2024	0-7	<0.050	<0.300	<10.0	10.0	<10.0	10.0	10.0	336
SW09	02/23/2024	0-5	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	297
SW10	02/23/2024	0-4	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	<49.7	206
SW10A	03/08/2024	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW10B	03/22/2024	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW11	03/08/2024	0-7	<0.050	<0.3000	<10.0	17.8	<10.0	17.8	17.8	144
SW12	03/08/2024	0-7	<0.050	<0.300	<10.0	144	32.2	144	176	320
SW12A	03/22/2024	0-7	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	208
Backfill Soil Samples										
BF01	06/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
BF02	06/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2020 OCT 29 PM 1:03

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4478			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32°	MINUTES 11'	SECONDS 22.57" N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103°	49'	56.14" W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW SE NE Sec. 25 T24S R30E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 10/07/2020		DRILLING ENDED 10/07/2020		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	110	±8.5	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. 0-4478	POD NO. 1	TRN NO. 678382
LOCATION 24S-30E-25 23-3	WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		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	3	3	Sand, fine-grained, poorly-graded, Red-Brown	Y ✓ N	
	3	5	2	Gravel, 20-30 mil, well graded, little clay	Y ✓ N	
	5	13	8	Caliche with some gravel (5-20 mil.) Tan/ Brown	Y ✓ N	
	13	24	9	Sand, fine-grained, well-graded some silt, Tan/ Red	Y ✓ N	
	24	34	10	Sand, Medium-grained, well-graded some silt, Tan/ Red	Y ✓ N	
	34	44	10	Sand, Large-grained, well-graded some silt, Dark Brown	Y ✓ N	
	44	110	66	Sand, fine-grained, well-graded, some clay, moist, caliche fragments Red/Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:				TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.			
MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from LTE on-site geologist.						
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge						
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
				Jackie D. Atkins		10/26/2020
SIGNATURE OF DRILLER / PRINT SIGNEE NAME				DATE		

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

Final Audit Report

2020-10-27

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

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

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2020-10-27 - 3:14:03 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2020-10-27 - 3:14:17 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2020-10-27 - 3:21:12 PM GMT- IP address: 74.50.153.115
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2020-10-27 - 3:22:09 PM GMT - Time Source: server- IP address: 74.50.153.115
-  Agreement completed.
2020-10-27 - 3:22:09 PM GMT

2020 OCT 29 PM 1:03

OFFICE
2020 OCT 29 PM 1:03

Adobe Sign



APPENDIX B

Photographic Log

**Photographic Log**

XTO Energy, Inc
Poker Lake Unit 102
NAPP2315334597

Date & Time: Mon, Jun 19, 2023 at 10:05:53 MDT
Position: 432192747°N -109535174°W (11.61)
Altitude: 4256ft (1298m)
Datum: WGS84
Azimuth Bearing: 0.0° (0.0°) (0.0miles true) (0.0°)
Pitch Angle: 0.0°
Roll Angle: 0.0°
Zoom: 1.0X
PLU 102, release point looking west



Photograph: 1 Date: 6/19/2023
Description: Soil staining at the point of release.
View: Southwest

Date & Time: Mon, Jun 19, 2023 at 12:43:36 MDT
Position: 432192747°N -109535174°W (11.61)
Altitude: 4256ft (1298m)
Datum: WGS84
Azimuth Bearing: 0.0° (0.0°) (0.0miles true) (0.0°)
Pitch Angle: 0.0°
Roll Angle: 0.0°
Zoom: 1.0X
PLU 102, release point looking east



Photograph: 2 Date: 6/19/2023
Description: Soil staining in release footprint.
View: Northeast

Date & Time: Thu, Jul 13, 2023 at 10:22:01 MDT
Position: 432192758°N -109535684°W (11.61)
Altitude: 4256ft (1298m)
Datum: WGS84
Azimuth Bearing: 0.0° (0.0°) (0.0miles true) (0.0°)
Pitch Angle: 0.0°
Roll Angle: 0.0°
Zoom: 0.9X
BH05, superintendant (1.0)



Photograph: 3 Date: 7/13/2023
Description: Delineation activities at BH05.
View: Northwest

Date & Time: Thu, Jul 13, 2023 at 11:26:26 MDT
Position: 432192724°N -109535174°W (11.61)
Altitude: 4256ft (1298m)
Datum: WGS84
Azimuth Bearing: 0.0° (0.0°) (0.0miles true) (0.0°)
Pitch Angle: 0.0°
Roll Angle: 0.0°
Zoom: 0.9X
BH01, superintendant (1.0)



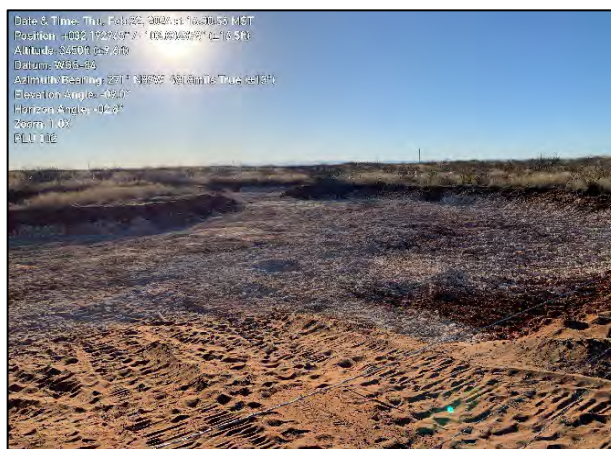
Photograph: 4 Date: 7/13/2023
Description: Delineation activities at BH01.
View: North

**Photographic Log**

XTO Energy, Inc
Poker Lake Unit 102
NAPP2315334597



Photograph: 5 Date: 2/7/2024
Description: Excavation extent near point of release.
View: West



Photograph: 6 Date: 2/22/2024
Description: Excavation extent.
View: West



Photograph: 7 Date: 3/7/2024
Description: Excavation extent.
View: Southeast



Photograph: 8 Date: 3/22/2024
Description: Final excavation extent.
View: Northeast



Photographic Log
 XTO Energy, Inc
 Poker Lake Unit 102
 NAPP2315334597



Photograph: 1 Date: 8/29/2024
 Description: Seeding activities.
 View: Northwest



Photograph: 2 Date: 8/29/2024
 Description: Seeding activities.
 View: Northwest



Photograph: 3 Date: 8/29/2024
 Description: Seeding activities.
 View: Northeast



Photograph: 4 Date: 8/29/2024
 Description: Seeding activities.
 View: Northwest



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01		Date: 7/13/2023	
								Site Name: Poker Lake Unit 102			
								Incident Number: NAPP2314334597			
								Job Number: 03C1558248			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR/SW		Method: Hand Auger	
Coordinates: 32.192759, -103.836184								Hole Diameter: 4"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	SP-SM	0-1' SAND with silt, black, medium grained, odorous and stained, moist.			
M	1,960	5,000	N			1	SP	1-3' SAND, red/brown, medium grained, poorly sorted, odorous, no stain, moist. Some caliche gravel between 2.5'-3'.			
M	5,964	5,000	N			2					
M	24,035	5,000	N	BH01	3	3	CCHE	3' CALICHE, white/light brown.			
						TD		Auger Refusal @ 3' bgs; total depth.			

								Sample Name: BH02		Date: 7/13/2023	
								Site Name: Poker Lake Unit 102			
								Incident Number: NAPP2314334597			
								Job Number: 03C1558248			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR/SW		Method: Hand Auger	
Coordinates: 32.192870, -103.836371								Hole Diameter: 4"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	SP-SM	0-1' SAND with silt, black, medium grained, odorous and stained, moist.			
M	1,372	425.4	N			1	SP	1-3' SAND, red/brown, medium grained, poorly sorted, odorous, no stain, moist. Some caliche gravel between 2.5'-3'.			
M	3,181	596.1	N			2					
M	12,986	535	N	BH02	3	3	CCHE	3' CALICHE, white/light brown.			
						TD		Auger Refusal @ 3' bgs; total depth.			

								Sample Name: BH04		Date: 7/13/2023	
								Site Name: Poker Lake Unit 102			
								Incident Number: NAPP2314334597			
								Job Number: 03C1558248			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR/SW		Method: Hand Auger	
Coordinates: 32.192907, -103.836831								Hole Diameter: 4"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	3,422	19.9	N	BH04		0	SP-SM	0-1' SAND with silt, black, medium grained, odorous and stained, moist.			
						1	SP	1-2' SAND, red/ brown, medium grained, poorly sorted, odorous, no stain, moist.			
M	4,654	398.4	N		2	2	CCHE	2' CALICHE, white/light brown.			
						TD		Auger Refusal @ 2' bgs, Total Depth			



APPENDIX D

Land Access References

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.	NMLC061705B
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well		NMNM71016X
☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No.
2. Name of Operator		Poker Lake Unit 102
XTO Energy, Inc.		9. API Well No.
		30-015-35162
3a. Address	3104 E. Greene Street Carlsbad, NM 88220	10. Field and Pool or Exploratory Area
3b. Phone No. (include area code)	(575) 200-0729	Poker Lake Unit (PLU)
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, State
Unit C-Sec 25-T24S-R30E (32.19279, -103.83618)		Eddy Co, New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

XTO Energy, Inc (XTO) requests access to an off pad area near the near the Poker Lake Unit 102 Site (located at 32.19279, -103.83618) in order to perform remediation activities resulting from a crude oil and produced water release associated with Incident Number NAPP2315334597, which occurred on May 21, 2023. The purpose is to excavate and remove impacted soil that was identified during soil sampling activities. The excavation will be completed by use of heavy equipment (trackhoe, backhoe, front loader) and the impacted soil will be properly hauled and disposed of at a nearby landfill disposal facility. Following the removal of impacted soil, 5-point confirmation soil samples will be collected on the floor and sidewalls of the excavation and analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), Total Petroleum Hydrocarbon (TPH), and chloride. Once all soil samples are in compliance with the Site Closure Criteria and the reclamation requirement applied to the top 4 feet of pasture areas, the excavation will be backfilled with locally sourced topsoil to match pre-existing site conditions and re-seeded with an approved BLM seed mixture. Excavation activities will begin within 90 days following the approval of this request. A site map and kmz depicting the release extent and work area is included with this Form 3160.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	SSHE Coordinator	
Garrett Green	Title	
Signature	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title EPS	Date 01/26/2024
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CFO	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

-  32.19279 -103.83618
-  Arch Survey Area

AVOIDANCE AREA W/
100' BUFFER

ARCH SURVEYED
AREA

EQUIPMENT ACCESS
ROUTE

32.19279 -103.83618





APPENDIX E

NMOCD Correspondence

From: [Buchanan, Michael, EMNRD](#)
To: [Collins, Melanie](#); spills@slo.state.nm.us; [Enviro, OCD, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Cc: [Green, Garrett J](#); [DelawareSpills /SM](#); [Ben Belill](#)
Subject: RE: [EXTERNAL] XTO - Sampling Notification (Week of 7/10/23 - 7/14/23)
Date: Wednesday, July 5, 2023 5:28:16 PM
Attachments: [image003.png](#)

[**EXTERNAL EMAIL**]

Good afternoon,

Thank you for the notification. Please include a copy of this and all notifications in the C-141, remedial and/or closure reports to ensure the notifications are documented in the project file.

Regards,

Mike Buchanan • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE | Albuquerque, NM 87113
| michael.buchanan@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Wednesday, July 5, 2023 2:54 PM
To: spills@slo.state.nm.us; 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: Green, Garrett J <garrett.green@exxonmobil.com>; DelawareSpills /SM <DelawareSpills@exxonmobil.com>; bbelill@ensolum.com
Subject: [EXTERNAL] XTO - Sampling Notification (Week of 7/10/23 - 7/14/23)

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 10, 2023.

Tuesday July 11th

- Hat Mesa 32-2 / nAPP2316046257 (SLO)

Wednesday July 12th

- PLU 15 Twin Wells Ranch CTB / nAPP2315148242

Thursday July 13th

- PLU 102 / nAPP2315334597
- PLU 15 Twin Wells Ranch CTB / nAPP2315148242

Friday July 14th

- Nash 12 / NAB1722948770

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

From: [Hamlet, Robert, EMNRD](#)
To: [Collins, Melanie Suzanne](#)
Cc: [Green, Garrett J](#); [Ben Belill](#); [DelawareSpills /SM](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: (Extension Approval) - XTO - Poker Lake Unit 102 - Incident Number NAPP2315334597
Date: Friday, August 18, 2023 5:46:59 PM
Attachments: [image003.png](#)

[**EXTERNAL EMAIL **]

RE: Incident #**NAPP2315334597**

Melanie,

Your request for an extension to **November 17th, 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: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, August 18, 2023 10:51 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: FW: [EXTERNAL] XTO - Extension Request - Poker Lake Unit 102 - Incident Number NAPP2315334597

From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Friday, August 18, 2023 10:39 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Green, Garrett J <garrett.green@exxonmobil.com>; bbelill@ensolum.com; DelawareSpills /SM <DelawareSpills@exxonmobil.com>
Subject: [EXTERNAL] XTO - Extension Request - Poker Lake Unit 102 - Incident Number NAPP2315334597

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 August 19, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Poker Lake Unit 102 (Incident Number NAPP2315334597). A release occurred on May 21, 2023, and initial site assessment and delineation activities have been completed. Based on delineation soil sample laboratory analytical results, removal of impacted soil utilizing heavy equipment in the pasture area is needed. XTO requires BLM approval to access the work area in order to excavate the impacted soil. A Sundry Form requesting access was submitted to BLM on July 20, 2023, and in response, BLM requested an archaeological survey of the work area. An archaeological survey and final report including the documentation of its findings is expected to be completed by the week of September 18, 2023. In order to review the results of the archaeological survey, excavate impacted soil, review laboratory analytical results, and submit a remediation work plan or closure report, XTO requests an extension until November 17, 2023.

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

From: [Collins, Melanie](#)
To: [ocd.enviro \(ocd.enviro@emnrd.nm.gov\)](mailto:ocd.enviro@emnrd.nm.gov)
Cc: [Green, Garrett J](#); [Tacoma Morrissey](#); [Ben Belill](#); [Lambert, Tommee L](#)
Subject: XTO-Extension Request- Poker Lake Unit 102/ Incident Number NAPP2315334597
Date: Thursday, November 16, 2023 3:47:35 PM
Attachments: [image001.png](#)

[**EXTERNAL EMAIL**]

All,

XTO is requesting an extension for the current deadline for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Poker Lake Unit 102 (Incident Number NAPP2315334597). Site assessment and delineation activities have been completed for the crude oil and produced water release. Based on delineation soil sample laboratory analytical results, removal of impacted soil utilizing heavy equipment in the pasture is required. In order to obtain BLM access to pasture soils XTO submitted a Sundry Form on July 20, 2023. An archaeological survey of the work area was requested and completed. The results of the archeological survey were submitted to the BLM on October 4, 2023, however approval from the BLM to proceed is pending. Planned remedial activities including excavation of impacted soil and confirmation sampling, will begin following access approval from the BLM. In order to complete a review of laboratory analytical results, and submit a remediation work plan or closure report, XTO requests an extension until February 15, 2024.

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

From: [Maxwell, Ashley, EMNRD](#)
To: [Green, Garrett J](#)
Cc: [Wells, Shelly, EMNRD](#); [Hall, Brittany, EMNRD](#); amy.ruth@exxonmobil.com; [Tacoma Morrissey](#); [Ben Belill](#)
Subject: RE: [EXTERNAL] RE: XTO - Variance Request - Poker Lake Unit 102 - Incident Number NAPP2315334597
Date: Friday, February 16, 2024 8:19:37 AM

Some people who received this message don't often get email from ashley.maxwell@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

Good Morning Garrett,

Your variance request to sample every 400 square feet is approved. Please include this correspondence with any subsequent reports.

Thanks,
Ashley

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMNRD Website prior to submitting any C-141s. The guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, February 15, 2024 3:44 PM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Subject: FW: [EXTERNAL] RE: XTO - Variance Request - Poker Lake Unit 102 - Incident Number NAPP2315334597

From: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Thursday, February 15, 2024 1:27 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Ruth, Amy

<amy.ruth@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill <bbelill@ensolum.com>

Subject: [EXTERNAL] RE: XTO - Variance Request - Poker Lake Unit 102 - Incident Number NAPP2315334597

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

Mr. Hamlet,

Please see the attached figures with results of the desktop Site Characterization. There are no sensitive receptors at the Site: the Site is not within a 100-year floodplain or in an area with a high-karst designation. In addition, we've included a figure demonstrating regional groundwater is greater than 100 feet below ground surface. Also attached is the well record for one soil boring drilled in 2020 within 0.5 miles of the Site to a depth of 110 feet. No groundwater was encountered, and the soil boring was subsequently backfilled with drill cuttings and hydrated bentonite chips.

We have included two figures showing the difference between the 200 square foot sampling grid and the requested 400 square foot sampling variance. Based on the following:

- A minimum soil thickness of 106 feet between the bottom of the impacted soil and the groundwater table;
- Lithology beyond 4 feet bgs identified as a hard caliche layer which seems to have acted as a barrier to additional vertical migration of impacts;
- The anticipated excavation depth of 4 feet bgs, which, once backfilled, will deter wildlife or the public to encounter the floor of the excavation;
- The quantity of anticipated samples, 34, will be able to determine if there is residual contaminants; and
- Lack of nearby sensitive receptors

we believe the sampling variance poses no additional risk to fresh water, public health, and the environment.

With the additional data provided will you please consider granting a variance of the sampling frequency from the required 200 square feet to 400 square feet?

Thanks,

Garrett Green

Environmental Advisor

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: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Sent: Wednesday, February 7, 2024 2:42 PM

To: Green, Garrett J <garrett.green@exxonmobil.com>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Subject: XTO - Variance Request - Poker Lake Unit 102 - Incident Number NAPP2315334597

External Email – Think Before You Click

Garrett,

We would need a proposed sampling grid map and sampling statistics showing equal or better protection of fresh water, public health and the environment. The demonstration should show that depth to groundwater and karst are not an issue. Also, that it's not within a 100-year floodplain.

Regards,

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: Green, Garrett J <garrett.green@exxonmobil.com>

Sent: Wednesday, February 7, 2024 2:08 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Subject: [EXTERNAL] XTO - Variance Request - Poker Lake Unit 102 - Incident Number NAPP2315334597

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

Good afternoon Mr. Hamlet,

Please see the variance request below.

Due to the estimated size of the excavation, lack of sensitive receptors at the Site, and depth to groundwater estimated to be greater than 100 feet bgs, XTO requests a variance for the frequency of excavation confirmation samples. XTO proposes to collect five-point composite samples at a sampling frequency of every 400 square feet from the floor and sidewall of the excavation. The proposed sampling frequency is estimated to reduce the total number of floor samples from 68 samples to approximately 34 samples. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation samples will be submitted for laboratory analysis of BTEX, TPH, and chloride.

Thanks,

Garrett Green

Environmental Advisor

Delaware Business Unit

(575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729



APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 6/26/2023 10:51:35 AM

JOB DESCRIPTION

Poker Lake Unit 102

SDG NUMBER 03C1558248

JOB NUMBER

890-4839-1

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
6/26/2023 10:51:35 AM

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

Client: Ensolum
Project/Site: Poker Lake Unit 102

Laboratory Job ID: 890-4839-1
SDG: 03C1558248

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Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

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.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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.

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 102

Job ID: 890-4839-1
SDG: 03C1558248

Job ID: 890-4839-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4839-1

Receipt

The samples were received on 6/19/2023 3:52 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 5.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4839-1), SS02 (890-4839-2), SS03 (890-4839-3), SS04 (890-4839-4), SS05 (890-4839-5), SS06 (890-4839-6), SS07 (890-4839-7), SS08 (890-4839-8) and SS09 (890-4839-9).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-56020 and analytical batch 880-56082 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-56020 and analytical batch 880-56082 recovered outside control limits for the following analytes: Toluene. Only an LCS or an LCSD need to be acceptable per the method and the RPD was acceptable; therefore, the data was qualified and reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS02 (890-4839-2). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-29954-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS04 (890-4839-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-56254/33). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-56223 and analytical batch 880-56254 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-56026 and analytical batch 880-56147 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS08 (890-4839-8) and (890-4836-A-5-D). 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: SS01 (890-4839-1), SS02 (890-4839-2), SS04 (890-4839-4) and SS05 (890-4839-5). 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 880-56026 and analytical batch 880-56147 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance

Case Narrative

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

Job ID: 890-4839-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

limits.

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

HPLC/IC

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

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

Client Sample ID: SS01

Lab Sample ID: 890-4839-1

Date Collected: 06/19/23 12:35

Matrix: Solid

Date Received: 06/19/23 15:52

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0630		0.0495	mg/Kg		06/21/23 13:48	06/23/23 05:53	25
Toluene	1.50	+	0.0495	mg/Kg		06/21/23 13:48	06/23/23 05:53	25
Ethylbenzene	1.58		0.0495	mg/Kg		06/21/23 13:48	06/23/23 05:53	25
m-Xylene & p-Xylene	1.72		0.0990	mg/Kg		06/21/23 13:48	06/23/23 05:53	25
o-Xylene	3.62		0.0495	mg/Kg		06/21/23 13:48	06/23/23 05:53	25
Xylenes, Total	5.34		0.0990	mg/Kg		06/21/23 13:48	06/23/23 05:53	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	06/21/23 13:48	06/23/23 05:53	25
1,4-Difluorobenzene (Surr)	90		70 - 130	06/21/23 13:48	06/23/23 05:53	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	8.48		0.0990	mg/Kg			06/23/23 14:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	10300		498	mg/Kg			06/26/23 11:27	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	2020		498	mg/Kg		06/21/23 14:55	06/23/23 18:45	10
Diesel Range Organics (Over C10-C28)	7060		498	mg/Kg		06/21/23 14:55	06/23/23 18:45	10
Oil Range Organics (Over C28-C36)	1200		498	mg/Kg		06/21/23 14:55	06/23/23 18:45	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	158	S1+	70 - 130	06/21/23 14:55	06/23/23 18:45	10
o-Terphenyl	248	S1+	70 - 130	06/21/23 14:55	06/23/23 18:45	10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	387		5.01	mg/Kg			06/21/23 20:40	1

Client Sample ID: SS02

Lab Sample ID: 890-4839-2

Date Collected: 06/19/23 12:40

Matrix: Solid

Date Received: 06/19/23 15:52

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		06/21/23 13:48	06/23/23 05:32	1
Toluene	0.0238	+	0.00200	mg/Kg		06/21/23 13:48	06/23/23 05:32	1
Ethylbenzene	0.148		0.00200	mg/Kg		06/21/23 13:48	06/23/23 05:32	1
m-Xylene & p-Xylene	0.245		0.00401	mg/Kg		06/21/23 13:48	06/23/23 05:32	1
o-Xylene	0.194		0.00200	mg/Kg		06/21/23 13:48	06/23/23 05:32	1
Xylenes, Total	0.439		0.00401	mg/Kg		06/21/23 13:48	06/23/23 05:32	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

Client Sample ID: SS02

Lab Sample ID: 890-4839-2

Date Collected: 06/19/23 12:40

Matrix: Solid

Date Received: 06/19/23 15:52

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	189	S1+	70 - 130	06/21/23 13:48	06/23/23 05:32	1
1,4-Difluorobenzene (Surr)	74		70 - 130	06/21/23 13:48	06/23/23 05:32	1
Method: TAL SOP Total BTEX - Total BTEX Calculation						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Total BTEX	0.611		0.00401	mg/Kg		06/23/23 14:13 1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Total TPH	12400		499	mg/Kg		06/26/23 11:27 1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	728		499	mg/Kg	06/21/23 14:55	06/23/23 19:09 10
Diesel Range Organics (Over C10-C28)	10200		499	mg/Kg	06/21/23 14:55	06/23/23 19:09 10
Oil Range Organics (Over C28-C36)	1500		499	mg/Kg	06/21/23 14:55	06/23/23 19:09 10
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	06/21/23 14:55	06/23/23 19:09	10
o-Terphenyl	310	S1+	70 - 130	06/21/23 14:55	06/23/23 19:09	10
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Chloride	6350		50.4	mg/Kg		06/21/23 20:46 10

Client Sample ID: SS03

Lab Sample ID: 890-4839-3

Date Collected: 06/19/23 12:45

Matrix: Solid

Date Received: 06/19/23 15:52

Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg	06/21/23 13:48	06/23/23 08:24 1
Toluene	<0.00198	U *	0.00198	mg/Kg	06/21/23 13:48	06/23/23 08:24 1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg	06/21/23 13:48	06/23/23 08:24 1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg	06/21/23 13:48	06/23/23 08:24 1
o-Xylene	<0.00198	U	0.00198	mg/Kg	06/21/23 13:48	06/23/23 08:24 1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg	06/21/23 13:48	06/23/23 08:24 1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/21/23 13:48	06/23/23 08:24	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/21/23 13:48	06/23/23 08:24	1
Method: TAL SOP Total BTEX - Total BTEX Calculation						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg		06/23/23 14:13 1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

Client Sample ID: SS03

Lab Sample ID: 890-4839-3

Date Collected: 06/19/23 12:45

Matrix: Solid

Date Received: 06/19/23 15:52

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	979		50.0	mg/Kg			06/26/23 11:27	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		06/21/23 14:55	06/23/23 20:42	1	
Diesel Range Organics (Over C10-C28)	867		50.0	mg/Kg		06/21/23 14:55	06/23/23 20:42	1	
Oil Range Organics (Over C28-C36)	112		50.0	mg/Kg		06/21/23 14:55	06/23/23 20:42	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	116		70 - 130			06/21/23 14:55	06/23/23 20:42	1	
o-Terphenyl	129		70 - 130			06/21/23 14:55	06/23/23 20:42	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	3900		24.9	mg/Kg			06/21/23 20:52	5	

Client Sample ID: SS04

Lab Sample ID: 890-4839-4

Date Collected: 06/19/23 12:50

Matrix: Solid

Date Received: 06/19/23 15:52

Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.0996	U	0.0996	mg/Kg		06/21/23 13:48	06/23/23 10:27	50	
Toluene	0.239	*+	0.0996	mg/Kg		06/21/23 13:48	06/23/23 10:27	50	
Ethylbenzene	0.862		0.0996	mg/Kg		06/21/23 13:48	06/23/23 10:27	50	
m-Xylene & p-Xylene	1.07		0.199	mg/Kg		06/21/23 13:48	06/23/23 10:27	50	
o-Xylene	0.399		0.0996	mg/Kg		06/21/23 13:48	06/23/23 10:27	50	
Xylenes, Total	1.47		0.199	mg/Kg		06/21/23 13:48	06/23/23 10:27	50	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	80		70 - 130			06/21/23 13:48	06/23/23 10:27	50	
1,4-Difluorobenzene (Surr)	70		70 - 130			06/21/23 13:48	06/23/23 10:27	50	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	2.57		0.199	mg/Kg			06/23/23 14:13	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	8270		498	mg/Kg			06/26/23 11:27	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	573		498	mg/Kg		06/21/23 14:55	06/23/23 19:32	10	
Diesel Range Organics (Over C10-C28)	6670		498	mg/Kg		06/21/23 14:55	06/23/23 19:32	10	

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

Client Sample ID: SS04

Lab Sample ID: 890-4839-4

Date Collected: 06/19/23 12:50

Matrix: Solid

Date Received: 06/19/23 15:52

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	1030		498	mg/Kg		06/21/23 14:55	06/23/23 19:32	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130			06/21/23 14:55	06/23/23 19:32	10
o-Terphenyl	238	S1+	70 - 130			06/21/23 14:55	06/23/23 19:32	10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	518		5.02	mg/Kg			06/21/23 21:09	1

Client Sample ID: SS05

Lab Sample ID: 890-4839-5

Date Collected: 06/19/23 12:55

Matrix: Solid

Date Received: 06/19/23 15:52

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		06/21/23 13:48	06/23/23 08:45	1
Toluene	0.0271	*+	0.00200	mg/Kg		06/21/23 13:48	06/23/23 08:45	1
Ethylbenzene	0.0897		0.00200	mg/Kg		06/21/23 13:48	06/23/23 08:45	1
m-Xylene & p-Xylene	0.296		0.00399	mg/Kg		06/21/23 13:48	06/23/23 08:45	1
o-Xylene	0.144		0.00200	mg/Kg		06/21/23 13:48	06/23/23 08:45	1
Xylenes, Total	0.440		0.00399	mg/Kg		06/21/23 13:48	06/23/23 08:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			06/21/23 13:48	06/23/23 08:45	1
1,4-Difluorobenzene (Surr)	80		70 - 130			06/21/23 13:48	06/23/23 08:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.557		0.00399	mg/Kg			06/23/23 14:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15500		499	mg/Kg			06/26/23 11:27	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	1760		499	mg/Kg		06/21/23 14:55	06/23/23 19:56	10
Diesel Range Organics (Over C10-C28)	11600		499	mg/Kg		06/21/23 14:55	06/23/23 19:56	10
Oil Range Organics (Over C28-C36)	2100		499	mg/Kg		06/21/23 14:55	06/23/23 19:56	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	242	S1+	70 - 130			06/21/23 14:55	06/23/23 19:56	10
o-Terphenyl	392	S1+	70 - 130			06/21/23 14:55	06/23/23 19:56	10

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

Client Sample ID: SS05

Lab Sample ID: 890-4839-5

Date Collected: 06/19/23 12:55

Matrix: Solid

Date Received: 06/19/23 15:52

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3470		24.8	mg/Kg			06/21/23 21:15	5

Client Sample ID: SS06

Lab Sample ID: 890-4839-6

Date Collected: 06/19/23 12:02

Matrix: Solid

Date Received: 06/19/23 15:52

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		06/21/23 13:48	06/23/23 09:05	1
Toluene	<0.00200	U *	0.00200	mg/Kg		06/21/23 13:48	06/23/23 09:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/21/23 13:48	06/23/23 09:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/21/23 13:48	06/23/23 09:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/21/23 13:48	06/23/23 09:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/21/23 13:48	06/23/23 09:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			06/21/23 13:48	06/23/23 09:05	1
1,4-Difluorobenzene (Surr)	87		70 - 130			06/21/23 13:48	06/23/23 09:05	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			06/23/23 14:13	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			06/26/23 11:27	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	<49.9	U	49.9	mg/Kg		06/21/23 14:55	06/23/23 14:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/21/23 14:55	06/23/23 14:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/21/23 14:55	06/23/23 14:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			06/21/23 14:55	06/23/23 14:32	1
o-Terphenyl	102		70 - 130			06/21/23 14:55	06/23/23 14:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.3		4.96	mg/Kg			06/21/23 21:33	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

Client Sample ID: SS07
Date Collected: 06/19/23 13:00
Date Received: 06/19/23 15:52
Sample Depth: 0.5

Lab Sample ID: 890-4839-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg	-	06/21/23 13:48	06/23/23 09:26	1	
Toluene	<0.00199	U *	0.00199	mg/Kg	-	06/21/23 13:48	06/23/23 09:26	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	-	06/21/23 13:48	06/23/23 09:26	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	-	06/21/23 13:48	06/23/23 09:26	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg	-	06/21/23 13:48	06/23/23 09:26	1	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	-	06/21/23 13:48	06/23/23 09:26	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	126		70 - 130			06/21/23 13:48	06/23/23 09:26	1	
1,4-Difluorobenzene (Surr)	92		70 - 130			06/21/23 13:48	06/23/23 09:26	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg	-		06/23/23 14:13	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	-		06/26/23 11:27	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	<49.9	U	49.9	mg/Kg	-	06/21/23 14:55	06/23/23 14:55	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	-	06/21/23 14:55	06/23/23 14:55	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	-	06/21/23 14:55	06/23/23 14:55	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	88		70 - 130			06/21/23 14:55	06/23/23 14:55	1	
o-Terphenyl	99		70 - 130			06/21/23 14:55	06/23/23 14:55	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	35.8		5.00	mg/Kg	-		06/21/23 21:38	1	

Client Sample ID: SS08
Date Collected: 06/19/23 13:50
Date Received: 06/19/23 15:52
Sample Depth: 0.5

Lab Sample ID: 890-4839-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00198	U	0.00198	mg/Kg	-	06/21/23 13:48	06/23/23 09:46	1	
Toluene	<0.00198	U *+	0.00198	mg/Kg	-	06/21/23 13:48	06/23/23 09:46	1	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg	-	06/21/23 13:48	06/23/23 09:46	1	
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg	-	06/21/23 13:48	06/23/23 09:46	1	
o-Xylene	<0.00198	U	0.00198	mg/Kg	-	06/21/23 13:48	06/23/23 09:46	1	
Xylenes, Total	<0.00397	U	0.00397	mg/Kg	-	06/21/23 13:48	06/23/23 09:46	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	122		70 - 130			06/21/23 13:48	06/23/23 09:46	1	

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

Client Sample ID: SS08

Lab Sample ID: 890-4839-8

Date Collected: 06/19/23 13:50

Matrix: Solid

Date Received: 06/19/23 15:52

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	06/21/23 13:48	06/23/23 09:46	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			06/23/23 14:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/26/23 11:27	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		06/21/23 14:55	06/23/23 15:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/21/23 14:55	06/23/23 15:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/21/23 14:55	06/23/23 15:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			06/21/23 14:55	06/23/23 15:19	1
o-Terphenyl	132	S1+	70 - 130			06/21/23 14:55	06/23/23 15:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.6		5.04	mg/Kg			06/21/23 21:44	1

Client Sample ID: SS09

Lab Sample ID: 890-4839-9

Date Collected: 06/19/23 14:00

Matrix: Solid

Date Received: 06/19/23 15:52

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/21/23 13:48	06/23/23 10:07	1
Toluene	<0.00202	U *	0.00202	mg/Kg		06/21/23 13:48	06/23/23 10:07	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/21/23 13:48	06/23/23 10:07	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		06/21/23 13:48	06/23/23 10:07	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/21/23 13:48	06/23/23 10:07	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/21/23 13:48	06/23/23 10:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	06/21/23 13:48	06/23/23 10:07	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/21/23 13:48	06/23/23 10:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			06/23/23 14:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/26/23 11:27	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

Client Sample ID: SS09
Date Collected: 06/19/23 14:00
Date Received: 06/19/23 15:52
Sample Depth: 0.5

Lab Sample ID: 890-4839-9
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/21/23 14:55	06/23/23 15:42	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/21/23 14:55	06/23/23 15:42	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/21/23 14:55	06/23/23 15:42	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	100		70 - 130			06/21/23 14:55	06/23/23 15:42	1	
o-Terphenyl	112		70 - 130			06/21/23 14:55	06/23/23 15:42	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	27.1		5.05	mg/Kg			06/21/23 21:50	1	

Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

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)
880-29954-A-1-A MS	Matrix Spike	105	91
880-29954-A-1-B MSD	Matrix Spike Duplicate	175 S1+	89
890-4836-A-2-E MS	Matrix Spike	107	93
890-4836-A-2-F MSD	Matrix Spike Duplicate	108	94
890-4839-1	SS01	88	90
890-4839-2	SS02	189 S1+	74
890-4839-3	SS03	100	92
890-4839-4	SS04	80	70
890-4839-5	SS05	104	80
890-4839-6	SS06	118	87
890-4839-7	SS07	126	92
890-4839-8	SS08	122	94
890-4839-9	SS09	125	97
LCS 880-56020/1-A	Lab Control Sample	109	97
LCS 880-56223/1-A	Lab Control Sample	111	94
LCSD 880-56020/2-A	Lab Control Sample Dup	109	88
LCSD 880-56223/2-A	Lab Control Sample Dup	111	91
MB 880-56020/5-A	Method Blank	96	107
MB 880-56064/5-A	Method Blank	106	106
MB 880-56223/5-A	Method Blank	102	88
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)
890-4836-A-5-E MS	Matrix Spike	94	99
890-4836-A-5-F MSD	Matrix Spike Duplicate	106	112
890-4839-1	SS01	158 S1+	248 S1+
890-4839-2	SS02	134 S1+	310 S1+
890-4839-3	SS03	116	129
890-4839-4	SS04	126	238 S1+
890-4839-5	SS05	242 S1+	392 S1+
890-4839-6	SS06	92	102
890-4839-7	SS07	88	99
890-4839-8	SS08	112	132 S1+
890-4839-9	SS09	100	112
LCS 880-56026/2-A	Lab Control Sample	80	95
LCSD 880-56026/3-A	Lab Control Sample Dup	90	105
MB 880-56026/1-A	Method Blank	120	141 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56020/5-A

Matrix: Solid

Analysis Batch: 56082

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56020

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/21/23 13:48	06/23/23 03:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/21/23 13:48	06/23/23 03:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/21/23 13:48	06/23/23 03:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/21/23 13:48	06/23/23 03:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/21/23 13:48	06/23/23 03:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/21/23 13:48	06/23/23 03:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	06/21/23 13:48	06/23/23 03:01	1
1,4-Difluorobenzene (Surr)	107		70 - 130	06/21/23 13:48	06/23/23 03:01	1

Lab Sample ID: LCS 880-56020/1-A

Matrix: Solid

Analysis Batch: 56082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56020

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1290		mg/Kg		129	70 - 130
Toluene	0.100	0.1315	*+	mg/Kg		131	70 - 130
Ethylbenzene	0.100	0.1183		mg/Kg		118	70 - 130
m-Xylene & p-Xylene	0.200	0.2114		mg/Kg		106	70 - 130
o-Xylene	0.100	0.09951		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-56020/2-A

Matrix: Solid

Analysis Batch: 56082

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56020

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1295		mg/Kg		129	70 - 130	0	35
Toluene	0.100	0.1279		mg/Kg		128	70 - 130	3	35
Ethylbenzene	0.100	0.1144		mg/Kg		114	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2161		mg/Kg		108	70 - 130	2	35
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 890-4836-A-2-E MS

Matrix: Solid

Analysis Batch: 56082

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56020

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.0996	0.06434	F1	mg/Kg		65	70 - 130
Toluene	<0.00201	U *+ F1	0.0996	0.04456	F1	mg/Kg		45	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

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

Lab Sample ID: 890-4836-A-2-E MS

Matrix: Solid

Analysis Batch: 56082

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56020

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.0996	0.03332	F1	mg/Kg		33	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.06017	F1	mg/Kg		30	70 - 130
o-Xylene	<0.00201	U F1	0.0996	0.02881	F1	mg/Kg		29	70 - 130

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

Lab Sample ID: 890-4836-A-2-F MSD

Matrix: Solid

Analysis Batch: 56082

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 56020

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0994	0.05300	F1	mg/Kg		53	70 - 130	19	35
Toluene	<0.00201	U *+ F1	0.0994	0.03512	F1	mg/Kg		35	70 - 130	24	35
Ethylbenzene	<0.00201	U F1	0.0994	0.02817	F1	mg/Kg		28	70 - 130	17	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.05391	F1	mg/Kg		27	70 - 130	11	35
o-Xylene	<0.00201	U F1	0.0994	0.02499	F1	mg/Kg		25	70 - 130	14	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-56064/5-A

Matrix: Solid

Analysis Batch: 56082

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56064

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/22/23 11:03	06/22/23 15:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/22/23 11:03	06/22/23 15:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/22/23 11:03	06/22/23 15:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/22/23 11:03	06/22/23 15:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/22/23 11:03	06/22/23 15:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/22/23 11:03	06/22/23 15:21	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/22/23 11:03	06/22/23 15:21	1
1,4-Difluorobenzene (Surr)	106		70 - 130	06/22/23 11:03	06/22/23 15:21	1

Lab Sample ID: MB 880-56223/5-A

Matrix: Solid

Analysis Batch: 56254

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56223

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/23/23 15:31	06/24/23 16:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/23/23 15:31	06/24/23 16:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/23/23 15:31	06/24/23 16:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/23/23 15:31	06/24/23 16:59	1

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

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

Lab Sample ID: MB 880-56223/5-A

Matrix: Solid

Analysis Batch: 56254

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56223

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/23/23 15:31	06/24/23 16:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/23/23 15:31	06/24/23 16:59	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	102		70 - 130			06/23/23 15:31	06/24/23 16:59	1
1,4-Difluorobenzene (Surr)	88		70 - 130			06/23/23 15:31	06/24/23 16:59	1

Lab Sample ID: LCS 880-56223/1-A

Matrix: Solid

Analysis Batch: 56254

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56223

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.09474		mg/Kg		95	70 - 130
Toluene	0.100	0.1119		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2232		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1063		mg/Kg		106	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	111		70 - 130				
1,4-Difluorobenzene (Surr)	94		70 - 130				

Lab Sample ID: LCSD 880-56223/2-A

Matrix: Solid

Analysis Batch: 56254

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56223

Table 1. Data from Table 1										
Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD
			Added	Result	Qualifier			Limits	RPD	Limit
Benzene			0.100	0.09176		mg/Kg		92	70 - 130	3
Toluene			0.100	0.1089		mg/Kg		109	70 - 130	3
Ethylbenzene			0.100	0.1039		mg/Kg		104	70 - 130	4
m-Xylene & p-Xylene			0.200	0.2155		mg/Kg		108	70 - 130	3
o-Xylene			0.100	0.1035		mg/Kg		103	70 - 130	3
LCSD LCSD										
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	111		70 - 130							
1,4-Difluorobenzene (Surr)	91		70 - 130							

Lab Sample ID: 880-29954-A-1-A MS

Matrix: Solid

Analysis Batch: 56254

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56223

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	<0.00199	U	0.0996	0.09542		mg/Kg		95	70 - 130
Toluene	<0.00199	U F1	0.0996	0.1088		mg/Kg		109	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.0996	0.1015		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.199	0.2089		mg/Kg		105	70 - 130
o-Xylene	<0.00199	U F1 F2	0.0996	0.09907		mg/Kg		99	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

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

Lab Sample ID: 880-29954-A-1-A MS
Matrix: Solid
Analysis Batch: 56254

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 56223

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-29954-A-1-B MSD
Matrix: Solid
Analysis Batch: 56254

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 56223

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0992	0.1019		mg/Kg		102	70 - 130	7	35
Toluene	<0.00199	U F1	0.0992	0.1517	F1	mg/Kg		153	70 - 130	33	35
Ethylbenzene	<0.00199	U F1 F2	0.0992	0.1720	F1 F2	mg/Kg		173	70 - 130	52	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.198	0.4048	F1 F2	mg/Kg		204	70 - 130	64	35
o-Xylene	<0.00199	U F1 F2	0.0992	0.1934	F1 F2	mg/Kg		195	70 - 130	64	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	175	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	89		70 - 130								

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

Lab Sample ID: MB 880-56026/1-A
Matrix: Solid
Analysis Batch: 56147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56026

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		06/21/23 14:55	06/23/23 09:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/21/23 14:55	06/23/23 09:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/21/23 14:55	06/23/23 09:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			06/21/23 14:55	06/23/23 09:08	1
o-Terphenyl	141	S1+	70 - 130			06/21/23 14:55	06/23/23 09:08	1

Lab Sample ID: LCS 880-56026/2-A
Matrix: Solid
Analysis Batch: 56147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	913.2		mg/Kg		91	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	879.9		mg/Kg		88	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane	80		70 - 130					
o-Terphenyl	95		70 - 130					

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

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

Lab Sample ID: LCSD 880-56026/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 56147				Prep Batch: 56026							
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	864.0		mg/Kg		86	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	832.1		mg/Kg		83	70 - 130	6	20
LCSD LCSD											
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	90		70 - 130								
o-Terphenyl	105		70 - 130								

Lab Sample ID: 890-4836-A-5-E MS				Client Sample ID: Matrix Spike							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 56147				Prep Batch: 56026							
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	809.9		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	664.8	F1	mg/Kg		64	70 - 130		
MS MS											
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	99		70 - 130								

Lab Sample ID: 890-4836-A-5-F MSD				Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 56147				Prep Batch: 56026							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	883.4		mg/Kg		86	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	761.6		mg/Kg		74	70 - 130	14	20
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	106		70 - 130								
o-Terphenyl	112		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-55910/1-A				Client Sample ID: Method Blank							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 56018											
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<5.00	U	5.00	mg/Kg			06/21/23 19:13	1			

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-55910/2-A				Client Sample ID: Lab Control Sample							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 56018											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.0		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-55910/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 56018											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	249.3		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-4839-3 MS				Client Sample ID: SS03							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 56018											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	3900		1250	5025		mg/Kg		91	90 - 110		

Lab Sample ID: 890-4839-3 MSD				Client Sample ID: SS03							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 56018											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3900		1250	5026		mg/Kg		91	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

GC VOA

Prep Batch: 56020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4839-1	SS01	Total/NA	Solid	5035	
890-4839-2	SS02	Total/NA	Solid	5035	
890-4839-3	SS03	Total/NA	Solid	5035	
890-4839-4	SS04	Total/NA	Solid	5035	
890-4839-5	SS05	Total/NA	Solid	5035	
890-4839-6	SS06	Total/NA	Solid	5035	
890-4839-7	SS07	Total/NA	Solid	5035	
890-4839-8	SS08	Total/NA	Solid	5035	
890-4839-9	SS09	Total/NA	Solid	5035	
MB 880-56020/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56020/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56020/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4836-A-2-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4836-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 56064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56064/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 56082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4839-1	SS01	Total/NA	Solid	8021B	56020
890-4839-2	SS02	Total/NA	Solid	8021B	56020
890-4839-3	SS03	Total/NA	Solid	8021B	56020
890-4839-4	SS04	Total/NA	Solid	8021B	56020
890-4839-5	SS05	Total/NA	Solid	8021B	56020
890-4839-6	SS06	Total/NA	Solid	8021B	56020
890-4839-7	SS07	Total/NA	Solid	8021B	56020
890-4839-8	SS08	Total/NA	Solid	8021B	56020
890-4839-9	SS09	Total/NA	Solid	8021B	56020
MB 880-56020/5-A	Method Blank	Total/NA	Solid	8021B	56020
MB 880-56064/5-A	Method Blank	Total/NA	Solid	8021B	56064
LCS 880-56020/1-A	Lab Control Sample	Total/NA	Solid	8021B	56020
LCSD 880-56020/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56020
890-4836-A-2-E MS	Matrix Spike	Total/NA	Solid	8021B	56020
890-4836-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56020

Analysis Batch: 56212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4839-1	SS01	Total/NA	Solid	Total BTEX	
890-4839-2	SS02	Total/NA	Solid	Total BTEX	
890-4839-3	SS03	Total/NA	Solid	Total BTEX	
890-4839-4	SS04	Total/NA	Solid	Total BTEX	
890-4839-5	SS05	Total/NA	Solid	Total BTEX	
890-4839-6	SS06	Total/NA	Solid	Total BTEX	
890-4839-7	SS07	Total/NA	Solid	Total BTEX	
890-4839-8	SS08	Total/NA	Solid	Total BTEX	
890-4839-9	SS09	Total/NA	Solid	Total BTEX	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

GC VOA

Prep Batch: 56223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56223/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56223/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56223/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29954-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-29954-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 56254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56223/5-A	Method Blank	Total/NA	Solid	8021B	56223
LCS 880-56223/1-A	Lab Control Sample	Total/NA	Solid	8021B	56223
LCSD 880-56223/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56223
880-29954-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	56223
880-29954-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56223

GC Semi VOA

Prep Batch: 56026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4839-1	SS01	Total/NA	Solid	8015NM Prep	
890-4839-2	SS02	Total/NA	Solid	8015NM Prep	
890-4839-3	SS03	Total/NA	Solid	8015NM Prep	
890-4839-4	SS04	Total/NA	Solid	8015NM Prep	
890-4839-5	SS05	Total/NA	Solid	8015NM Prep	
890-4839-6	SS06	Total/NA	Solid	8015NM Prep	
890-4839-7	SS07	Total/NA	Solid	8015NM Prep	
890-4839-8	SS08	Total/NA	Solid	8015NM Prep	
890-4839-9	SS09	Total/NA	Solid	8015NM Prep	
MB 880-56026/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56026/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56026/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4836-A-5-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4836-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4839-1	SS01	Total/NA	Solid	8015B NM	56026
890-4839-2	SS02	Total/NA	Solid	8015B NM	56026
890-4839-3	SS03	Total/NA	Solid	8015B NM	56026
890-4839-4	SS04	Total/NA	Solid	8015B NM	56026
890-4839-5	SS05	Total/NA	Solid	8015B NM	56026
890-4839-6	SS06	Total/NA	Solid	8015B NM	56026
890-4839-7	SS07	Total/NA	Solid	8015B NM	56026
890-4839-8	SS08	Total/NA	Solid	8015B NM	56026
890-4839-9	SS09	Total/NA	Solid	8015B NM	56026
MB 880-56026/1-A	Method Blank	Total/NA	Solid	8015B NM	56026
LCS 880-56026/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56026
LCSD 880-56026/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56026
890-4836-A-5-E MS	Matrix Spike	Total/NA	Solid	8015B NM	56026
890-4836-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56026

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

GC Semi VOA

Analysis Batch: 56352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4839-1	SS01	Total/NA	Solid	8015 NM	
890-4839-2	SS02	Total/NA	Solid	8015 NM	
890-4839-3	SS03	Total/NA	Solid	8015 NM	
890-4839-4	SS04	Total/NA	Solid	8015 NM	
890-4839-5	SS05	Total/NA	Solid	8015 NM	
890-4839-6	SS06	Total/NA	Solid	8015 NM	
890-4839-7	SS07	Total/NA	Solid	8015 NM	
890-4839-8	SS08	Total/NA	Solid	8015 NM	
890-4839-9	SS09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 55910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4839-1	SS01	Soluble	Solid	DI Leach	
890-4839-2	SS02	Soluble	Solid	DI Leach	
890-4839-3	SS03	Soluble	Solid	DI Leach	
890-4839-4	SS04	Soluble	Solid	DI Leach	
890-4839-5	SS05	Soluble	Solid	DI Leach	
890-4839-6	SS06	Soluble	Solid	DI Leach	
890-4839-7	SS07	Soluble	Solid	DI Leach	
890-4839-8	SS08	Soluble	Solid	DI Leach	
890-4839-9	SS09	Soluble	Solid	DI Leach	
MB 880-55910/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-55910/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-55910/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4839-3 MS	SS03	Soluble	Solid	DI Leach	
890-4839-3 MSD	SS03	Soluble	Solid	DI Leach	

Analysis Batch: 56018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4839-1	SS01	Soluble	Solid	300.0	55910
890-4839-2	SS02	Soluble	Solid	300.0	55910
890-4839-3	SS03	Soluble	Solid	300.0	55910
890-4839-4	SS04	Soluble	Solid	300.0	55910
890-4839-5	SS05	Soluble	Solid	300.0	55910
890-4839-6	SS06	Soluble	Solid	300.0	55910
890-4839-7	SS07	Soluble	Solid	300.0	55910
890-4839-8	SS08	Soluble	Solid	300.0	55910
890-4839-9	SS09	Soluble	Solid	300.0	55910
MB 880-55910/1-A	Method Blank	Soluble	Solid	300.0	55910
LCS 880-55910/2-A	Lab Control Sample	Soluble	Solid	300.0	55910
LCSD 880-55910/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	55910
890-4839-3 MS	SS03	Soluble	Solid	300.0	55910
890-4839-3 MSD	SS03	Soluble	Solid	300.0	55910

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

Client Sample ID: SS01
Date Collected: 06/19/23 12:35
Date Received: 06/19/23 15:52

Lab Sample ID: 890-4839-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56020	06/21/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	56082	06/23/23 05:53	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			56212	06/23/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			56352	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56026	06/21/23 14:55	AJ	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	56147	06/23/23 18:45	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	55910	06/20/23 10:31	KS	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	56018	06/21/23 20:40	CH	EET MID

Client Sample ID: SS02
Date Collected: 06/19/23 12:40
Date Received: 06/19/23 15:52

Lab Sample ID: 890-4839-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	56020	06/21/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56082	06/23/23 05:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			56212	06/23/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			56352	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56026	06/21/23 14:55	AJ	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	56147	06/23/23 19:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	55910	06/20/23 10:31	KS	EET MID
Soluble	Analysis	300.0		10	10 mL	10 mL	56018	06/21/23 20:46	CH	EET MID

Client Sample ID: SS03
Date Collected: 06/19/23 12:45
Date Received: 06/19/23 15:52

Lab Sample ID: 890-4839-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56020	06/21/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56082	06/23/23 08:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			56212	06/23/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			56352	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56026	06/21/23 14:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/23/23 20:42	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	55910	06/20/23 10:31	KS	EET MID
Soluble	Analysis	300.0		5	10 mL	10 mL	56018	06/21/23 20:52	CH	EET MID

Client Sample ID: SS04
Date Collected: 06/19/23 12:50
Date Received: 06/19/23 15:52

Lab Sample ID: 890-4839-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	56020	06/21/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	56082	06/23/23 10:27	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			56212	06/23/23 14:13	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

Client Sample ID: SS04
Date Collected: 06/19/23 12:50
Date Received: 06/19/23 15:52

Lab Sample ID: 890-4839-4
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			56352	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	56026	06/21/23 14:55	AJ	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	56147	06/23/23 19:32	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	55910	06/20/23 10:31	KS	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	56018	06/21/23 21:09	CH	EET MID

Client Sample ID: SS05
Date Collected: 06/19/23 12:55
Date Received: 06/19/23 15:52

Lab Sample ID: 890-4839-5
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			5.01 g	5 mL	56020	06/21/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56082	06/23/23 08:45	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			56212	06/23/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			56352	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56026	06/21/23 14:55	AJ	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	56147	06/23/23 19:56	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	55910	06/20/23 10:31	KS	EET MID
Soluble	Analysis	300.0		5	10 mL	10 mL	56018	06/21/23 21:15	CH	EET MID

Client Sample ID: SS06
Date Collected: 06/19/23 12:02
Date Received: 06/19/23 15:52

Lab Sample ID: 890-4839-6
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	56020	06/21/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56082	06/23/23 09:05	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			56212	06/23/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			56352	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56026	06/21/23 14:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/23/23 14:32	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	55910	06/20/23 10:31	KS	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	56018	06/21/23 21:33	CH	EET MID

Client Sample ID: SS07
Date Collected: 06/19/23 13:00
Date Received: 06/19/23 15:52

Lab Sample ID: 890-4839-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	56020	06/21/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56082	06/23/23 09:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			56212	06/23/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			56352	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56026	06/21/23 14:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/23/23 14:55	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

Client Sample ID: SS07
Date Collected: 06/19/23 13:00
Date Received: 06/19/23 15:52

Lab Sample ID: 890-4839-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	55910	06/20/23 10:31	KS	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	56018	06/21/23 21:38	CH	EET MID

Client Sample ID: SS08
Date Collected: 06/19/23 13:50
Date Received: 06/19/23 15:52

Lab Sample ID: 890-4839-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	56020	06/21/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56082	06/23/23 09:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			56212	06/23/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			56352	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56026	06/21/23 14:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/23/23 15:19	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	55910	06/20/23 10:31	KS	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	56018	06/21/23 21:44	CH	EET MID

Client Sample ID: SS09
Date Collected: 06/19/23 14:00
Date Received: 06/19/23 15:52

Lab Sample ID: 890-4839-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	56020	06/21/23 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56082	06/23/23 10:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			56212	06/23/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			56352	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56026	06/21/23 14:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/23/23 15:42	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	55910	06/20/23 10:31	KS	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	56018	06/21/23 21:50	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 102

Job ID: 890-4839-1
SDG: 03C1558248

Laboratory: Eurofins Midland

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

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: Poker Lake Unit 102

Job ID: 890-4839-1
SDG: 03C1558248

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 102

Job ID: 890-4839-1
SDG: 03C1558248

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4839-1	SS01	Solid	06/19/23 12:35	06/19/23 15:52	0.5
890-4839-2	SS02	Solid	06/19/23 12:40	06/19/23 15:52	0.5
890-4839-3	SS03	Solid	06/19/23 12:45	06/19/23 15:52	0.5
890-4839-4	SS04	Solid	06/19/23 12:50	06/19/23 15:52	0.5
890-4839-5	SS05	Solid	06/19/23 12:55	06/19/23 15:52	0.5
890-4839-6	SS06	Solid	06/19/23 12:02	06/19/23 15:52	0.5
890-4839-7	SS07	Solid	06/19/23 13:00	06/19/23 15:52	0.5
890-4839-8	SS08	Solid	06/19/23 13:50	06/19/23 15:52	0.5
890-4839-9	SS09	Solid	06/19/23 14:00	06/19/23 15:52	0.5

- 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
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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No. _____

www.xenco.com Page _____ of _____

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

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

Project Name:	Poker Lake Unit 102	Turn Around	Pres. Code	ANALYSIS REQUEST		Preservative Codes
Project Number:	03C1558248	☒ Routine ☐ Rush				None: NO DI Water: H ₂ O
Project Location:		Due Date:				Cool: Cool MeOH: Me
Sampler's Name:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm				HCL: HC HNO ₃ : HN
PO #:						H ₂ SO ₄ : H ₂
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Thermometer ID: ☒ Yes ☒ No	Water: ☒ Yes ☒ No			H ₃ PO ₄ : HP
Samples Received Intact:	☒ Yes ☒ No	Correction Factor:				NaHSO ₄ : NABIS
Cooler Custody Seals:	☒ Yes ☒ No	Temperature Reading:				Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	☒ Yes ☒ No	Corrected Temperature:				Zn Acetate+NaOH: Zn
Total Containers:						NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont
5501	S	6/19/23	12:31	5'	G	1
5502			12:40			1
5503			12:45			1
5504			12:50			1
5505			12:55			1
5506			1:25			1
5507			1:30			1
5508			1:35			1
5509			1:40			1
CN						
Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn						
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471						



890-4839 Chain of Custody

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Chit</i>	<i>Garrett Green</i>	6-19-23 15:52			
3					
5					

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4839-1

SDG Number: 03C1558248

Login Number: 4839

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4839-1

SDG Number: 03C1558248

Login Number: 4839

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 06/21/23 10:52 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 7/31/2023 3:21:40 PM

JOB DESCRIPTION

Poker Laker Unit 102
SDG NUMBER 03C1558248

JOB NUMBER

890-4949-1

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
7/31/2023 3:21:40 PM

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

Client: Ensolum
Project/Site: Poker Laker Unit 102

Laboratory Job ID: 890-4949-1
SDG: 03C1558248

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Definitions/Glossary

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

Job ID: 890-4949-1

Laboratory: Eurofins Carlsbad

Narrative	Job Narrative 890-4949-1
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Receipt

The samples were received on 7/14/2023 2:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-4949-1), BH02 (890-4949-2), BH03 (890-4949-3), BH04 (890-4949-4) and BH05 (890-4949-5).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH01 (890-4949-1). 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: Surrogate recovery for the following samples were outside control limits: BH01 (890-4949-1), BH02 (890-4949-2), BH03 (890-4949-3), BH04 (890-4949-4), BH05 (890-4949-5), (MB 880-58523/1-A), (880-30945-A-1-I MS) and (880-30945-A-1-J 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.

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Client Sample Results

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

Client Sample ID: BH01
Date Collected: 07/13/23 12:13
Date Received: 07/14/23 14:35
Sample Depth: 3

Lab Sample ID: 890-4949-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	0.413		0.0504	mg/Kg		07/19/23 08:25	07/19/23 17:50	25	
Toluene	4.15		0.0504	mg/Kg		07/19/23 08:25	07/19/23 17:50	25	
Ethylbenzene	5.66		0.0504	mg/Kg		07/19/23 08:25	07/19/23 17:50	25	
m-Xylene & p-Xylene	12.5		0.101	mg/Kg		07/19/23 08:25	07/19/23 17:50	25	
o-Xylene	5.17		0.0504	mg/Kg		07/19/23 08:25	07/19/23 17:50	25	
Xylenes, Total	17.7		0.101	mg/Kg		07/19/23 08:25	07/19/23 17:50	25	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	189	S1+	70 - 130			07/19/23 08:25	07/19/23 17:50	25	
1,4-Difluorobenzene (Surr)	96		70 - 130			07/19/23 08:25	07/19/23 17:50	25	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	27.9		0.101	mg/Kg			07/20/23 10:18	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	16100		250	mg/Kg			07/31/23 16:05	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	2350		250	mg/Kg		07/26/23 09:28	07/29/23 03:11	5	
Diesel Range Organics (Over C10-C28)	13000		250	mg/Kg		07/26/23 09:28	07/29/23 03:11	5	
Oil Range Organics (Over C28-C36)	738		250	mg/Kg		07/26/23 09:28	07/29/23 03:11	5	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	151	S1+	70 - 130			07/26/23 09:28	07/29/23 03:11	5	
o-Terphenyl	197	S1+	70 - 130			07/26/23 09:28	07/29/23 03:11	5	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	12500		99.8	mg/Kg			07/19/23 08:28	20	

Client Sample ID: BH02
Date Collected: 07/13/23 12:25
Date Received: 07/14/23 14:35
Sample Depth: 3

Lab Sample ID: 890-4949-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	0.00238		0.00200	mg/Kg		07/19/23 08:25	07/19/23 16:27	1	
Toluene	0.0351		0.00200	mg/Kg		07/19/23 08:25	07/19/23 16:27	1	
Ethylbenzene	0.0163		0.00200	mg/Kg		07/19/23 08:25	07/19/23 16:27	1	
m-Xylene & p-Xylene	0.0373		0.00401	mg/Kg		07/19/23 08:25	07/19/23 16:27	1	
o-Xylene	0.0161		0.00200	mg/Kg		07/19/23 08:25	07/19/23 16:27	1	
Xylenes, Total	0.0534		0.00401	mg/Kg		07/19/23 08:25	07/19/23 16:27	1	

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Client Sample Results

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

Client Sample ID: BH02
Date Collected: 07/13/23 12:25
Date Received: 07/14/23 14:35
Sample Depth: 3

Lab Sample ID: 890-4949-2
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			07/19/23 08:25	07/19/23 16:27	1
1,4-Difluorobenzene (Surr)	103		70 - 130			07/19/23 08:25	07/19/23 16:27	1
Method: TAL SOP Total BTEX - Total BTEX Calculation								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.107		0.00401	mg/Kg			07/20/23 10:18	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4740		50.1	mg/Kg			07/31/23 16:05	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		07/26/23 09:28	07/29/23 03:53	1
Diesel Range Organics (Over C10-C28)	4480		50.1	mg/Kg		07/26/23 09:28	07/29/23 03:53	1
Oil Range Organics (Over C28-C36)	257		50.1	mg/Kg		07/26/23 09:28	07/29/23 03:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130			07/26/23 09:28	07/29/23 03:53	1
o-Terphenyl	168	S1+	70 - 130			07/26/23 09:28	07/29/23 03:53	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8100		50.0	mg/Kg			07/19/23 08:43	10

Client Sample ID: BH03
Date Collected: 07/13/23 12:30
Date Received: 07/14/23 14:35
Sample Depth: 1

Lab Sample ID: 890-4949-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/19/23 08:25	07/19/23 16:48	1
Toluene	0.0117		0.00201	mg/Kg		07/19/23 08:25	07/19/23 16:48	1
Ethylbenzene	0.00687		0.00201	mg/Kg		07/19/23 08:25	07/19/23 16:48	1
m-Xylene & p-Xylene	0.0103		0.00402	mg/Kg		07/19/23 08:25	07/19/23 16:48	1
o-Xylene	0.0130		0.00201	mg/Kg		07/19/23 08:25	07/19/23 16:48	1
Xylenes, Total	0.0233		0.00402	mg/Kg		07/19/23 08:25	07/19/23 16:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			07/19/23 08:25	07/19/23 16:48	1
1,4-Difluorobenzene (Surr)	103		70 - 130			07/19/23 08:25	07/19/23 16:48	1
Method: TAL SOP Total BTEX - Total BTEX Calculation								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0419		0.00402	mg/Kg			07/20/23 10:18	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

Client Sample ID: BH03
Date Collected: 07/13/23 12:30
Date Received: 07/14/23 14:35
Sample Depth: 1

Lab Sample ID: 890-4949-3
Matrix: Solid

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	2340		50.4	mg/Kg			07/31/23 16:05	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		07/26/23 09:28	07/29/23 04:14	1	
Diesel Range Organics (Over C10-C28)	2210		50.4	mg/Kg		07/26/23 09:28	07/29/23 04:14	1	
Oil Range Organics (Over C28-C36)	131		50.4	mg/Kg		07/26/23 09:28	07/29/23 04:14	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	138	S1+	70 - 130			07/26/23 09:28	07/29/23 04:14	1	
o-Terphenyl	174	S1+	70 - 130			07/26/23 09:28	07/29/23 04:14	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	442		4.98	mg/Kg			07/19/23 08:48	1	

Client Sample ID: BH04
Date Collected: 07/13/23 11:05
Date Received: 07/14/23 14:35
Sample Depth: 2

Lab Sample ID: 890-4949-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg	-	07/19/23 08:25	07/19/23 17:09	1	
Toluene	0.0229		0.00199	mg/Kg	-	07/19/23 08:25	07/19/23 17:09	1	
Ethylbenzene	0.0155		0.00199	mg/Kg	-	07/19/23 08:25	07/19/23 17:09	1	
m-Xylene & p-Xylene	0.0503		0.00398	mg/Kg	-	07/19/23 08:25	07/19/23 17:09	1	
o-Xylene	0.0214		0.00199	mg/Kg	-	07/19/23 08:25	07/19/23 17:09	1	
Xylenes, Total	0.0717		0.00398	mg/Kg	-	07/19/23 08:25	07/19/23 17:09	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	94		70 - 130			07/19/23 08:25	07/19/23 17:09	1	
1,4-Difluorobenzene (Surr)	110		70 - 130			07/19/23 08:25	07/19/23 17:09	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	0.110		0.00398	mg/Kg	-		07/20/23 10:18	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	1040		50.3	mg/Kg	-		07/31/23 16:05	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	60.5		50.3	mg/Kg	-	07/26/23 09:28	07/29/23 04:36	1	
Diesel Range Organics (Over C10-C28)	906		50.3	mg/Kg	-	07/26/23 09:28	07/29/23 04:36	1	

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

Client Sample ID: BH04

Lab Sample ID: 890-4949-4

Date Collected: 07/13/23 11:05

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	73.9		50.3	mg/Kg		07/26/23 09:28	07/29/23 04:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130			07/26/23 09:28	07/29/23 04:36	1
o-Terphenyl	177	S1+	70 - 130			07/26/23 09:28	07/29/23 04:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	700		4.96	mg/Kg			07/19/23 08:53	1

Client Sample ID: BH05

Lab Sample ID: 890-4949-5

Date Collected: 07/13/23 10:55

Matrix: Solid

Date Received: 07/14/23 14:35

Sample Depth: 1

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		07/19/23 08:25	07/19/23 17:29	1
Toluene	0.0417		0.00198	mg/Kg		07/19/23 08:25	07/19/23 17:29	1
Ethylbenzene	0.0218		0.00198	mg/Kg		07/19/23 08:25	07/19/23 17:29	1
m-Xylene & p-Xylene	0.0518		0.00396	mg/Kg		07/19/23 08:25	07/19/23 17:29	1
o-Xylene	0.0279		0.00198	mg/Kg		07/19/23 08:25	07/19/23 17:29	1
Xylenes, Total	0.0797		0.00396	mg/Kg		07/19/23 08:25	07/19/23 17:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			07/19/23 08:25	07/19/23 17:29	1
1,4-Difluorobenzene (Surr)	105		70 - 130			07/19/23 08:25	07/19/23 17:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.143		0.00396	mg/Kg			07/20/23 10:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5050		49.7	mg/Kg			07/31/23 16:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	205		49.7	mg/Kg		07/26/23 09:28	07/29/23 03:32	1
Diesel Range Organics (Over C10-C28)	4580		49.7	mg/Kg		07/26/23 09:28	07/29/23 03:32	1
Oil Range Organics (Over C28-C36)	260		49.7	mg/Kg		07/26/23 09:28	07/29/23 03:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130			07/26/23 09:28	07/29/23 03:32	1
o-Terphenyl	168	S1+	70 - 130			07/26/23 09:28	07/29/23 03:32	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

Client Sample ID: BH05
Date Collected: 07/13/23 10:55
Date Received: 07/14/23 14:35
Sample Depth: 1

Lab Sample ID: 890-4949-5
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	318		4.99	mg/Kg			07/19/23 08:58	1	

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

Surrogate Summary

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

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)
880-30907-A-1-D MS	Matrix Spike	102	101
880-30907-A-1-E MSD	Matrix Spike Duplicate	103	97
890-4949-1	BH01	189 S1+	96
890-4949-2	BH02	81	103
890-4949-3	BH03	95	103
890-4949-4	BH04	94	110
890-4949-5	BH05	108	105
LCS 880-57993/1-A	Lab Control Sample	97	106
LCSD 880-57993/2-A	Lab Control Sample Dup	95	103
MB 880-57993/5-A	Method Blank	84	96
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-30945-A-1-I MS	Matrix Spike	116	141 S1+
880-30945-A-1-J MSD	Matrix Spike Duplicate	126	145 S1+
890-4949-1	BH01	151 S1+	197 S1+
890-4949-2	BH02	134 S1+	168 S1+
890-4949-3	BH03	138 S1+	174 S1+
890-4949-4	BH04	143 S1+	177 S1+
890-4949-5	BH05	130	168 S1+
LCS 880-58523/2-A	Lab Control Sample	92	126
LCSD 880-58523/3-A	Lab Control Sample Dup	96	123
MB 880-58523/1-A	Method Blank	144 S1+	175 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57993/5-A

Matrix: Solid

Analysis Batch: 57992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57993

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/19/23 08:25	07/19/23 11:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/19/23 08:25	07/19/23 11:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/19/23 08:25	07/19/23 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/19/23 08:25	07/19/23 11:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/19/23 08:25	07/19/23 11:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/19/23 08:25	07/19/23 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	07/19/23 08:25	07/19/23 11:34	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/19/23 08:25	07/19/23 11:34	1

Lab Sample ID: LCS 880-57993/1-A

Matrix: Solid

Analysis Batch: 57992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1019		mg/Kg		102	70 - 130
Toluene	0.100	0.1047		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.09773		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1894		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09411		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-57993/2-A

Matrix: Solid

Analysis Batch: 57992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57993

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09732		mg/Kg		97	70 - 130	5	35
Toluene	0.100	0.1030		mg/Kg		103	70 - 130	2	35
Ethylbenzene	0.100	0.09517		mg/Kg		95	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1852		mg/Kg		93	70 - 130	2	35
o-Xylene	0.100	0.09201		mg/Kg		92	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-30907-A-1-D MS

Matrix: Solid

Analysis Batch: 57992

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 57993

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0994	0.08912		mg/Kg		89	70 - 130
Toluene	<0.00198	U	0.0994	0.09480		mg/Kg		95	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

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

Lab Sample ID: 880-30907-A-1-D MS
Matrix: Solid
Analysis Batch: 57992

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 57993

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0994	0.08705		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00397	U	0.199	0.1679		mg/Kg		84	70 - 130
o-Xylene	<0.00198	U	0.0994	0.08365		mg/Kg		84	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		70 - 130						
1,4-Difluorobenzene (Surr)	101		70 - 130						

Lab Sample ID: 880-30907-A-1-E MSD
Matrix: Solid
Analysis Batch: 57992

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 57993

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.08929		mg/Kg		89	70 - 130	0	35
Toluene	<0.00198	U	0.0998	0.09798		mg/Kg		98	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.0998	0.09052		mg/Kg		91	70 - 130	4	35
m-Xylene & p-Xylene	<0.00397	U	0.200	0.1756		mg/Kg		88	70 - 130	4	35
o-Xylene	<0.00198	U	0.0998	0.08755		mg/Kg		88	70 - 130	5	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	103		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

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

Lab Sample ID: MB 880-58523/1-A
Matrix: Solid
Analysis Batch: 58682

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58523

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/26/23 09:28	07/28/23 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/26/23 09:28	07/28/23 19:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/26/23 09:28	07/28/23 19:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits					
1-Chlorooctane	144	S1+	70 - 130					
o-Terphenyl	175	S1+	70 - 130					

Lab Sample ID: LCS 880-58523/2-A
Matrix: Solid
Analysis Batch: 58682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	884.3		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	935.8		mg/Kg		94	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

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

Lab Sample ID: LCS 880-58523/2-A

Matrix: Solid

Analysis Batch: 58682

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58523

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: LCSD 880-58523/3-A

Matrix: Solid

Analysis Batch: 58682

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58523

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	987.9		mg/Kg		99	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	993.1		mg/Kg		99	70 - 130	6	20

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

Lab Sample ID: 880-30945-A-1-I MS

Matrix: Solid

Analysis Batch: 58682

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 58523

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	998	848.2		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	<50.3	U	998	926.2		mg/Kg		89	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	141	S1+	70 - 130

Lab Sample ID: 880-30945-A-1-J MSD

Matrix: Solid

Analysis Batch: 58682

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 58523

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	998	903.5		mg/Kg		86	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.3	U	998	980.7		mg/Kg		95	70 - 130	6	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	145	S1+	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57875/1-A Matrix: Solid Analysis Batch: 58007										Client Sample ID: Method Blank Prep Type: Soluble		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
Chloride	<5.00	U	5.00	mg/Kg			07/19/23 08:12	1				

Lab Sample ID: LCS 880-57875/2-A Matrix: Solid Analysis Batch: 58007										Client Sample ID: Lab Control Sample Prep Type: Soluble		
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride			250	238.8		mg/Kg		96	90 - 110			

Lab Sample ID: LCSD 880-57875/3-A Matrix: Solid Analysis Batch: 58007										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	234.9		mg/Kg		94	90 - 110	2	20	

Lab Sample ID: 890-4949-1 MS Matrix: Solid Analysis Batch: 58007										Client Sample ID: BH01 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	12500		4990	17530		mg/Kg		101	90 - 110			

Lab Sample ID: 890-4949-1 MSD Matrix: Solid Analysis Batch: 58007										Client Sample ID: BH01 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	12500		4990	17300		mg/Kg		96	90 - 110	1	20	

QC Association Summary

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

GC VOA

Analysis Batch: 57992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4949-1	BH01	Total/NA	Solid	8021B	57993
890-4949-2	BH02	Total/NA	Solid	8021B	57993
890-4949-3	BH03	Total/NA	Solid	8021B	57993
890-4949-4	BH04	Total/NA	Solid	8021B	57993
890-4949-5	BH05	Total/NA	Solid	8021B	57993
MB 880-57993/5-A	Method Blank	Total/NA	Solid	8021B	57993
LCS 880-57993/1-A	Lab Control Sample	Total/NA	Solid	8021B	57993
LCSD 880-57993/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57993
880-30907-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	57993
880-30907-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57993

Prep Batch: 57993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4949-1	BH01	Total/NA	Solid	5035	
890-4949-2	BH02	Total/NA	Solid	5035	
890-4949-3	BH03	Total/NA	Solid	5035	
890-4949-4	BH04	Total/NA	Solid	5035	
890-4949-5	BH05	Total/NA	Solid	5035	
MB 880-57993/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57993/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57993/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30907-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-30907-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 58107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4949-1	BH01	Total/NA	Solid	Total BTEX	
890-4949-2	BH02	Total/NA	Solid	Total BTEX	
890-4949-3	BH03	Total/NA	Solid	Total BTEX	
890-4949-4	BH04	Total/NA	Solid	Total BTEX	
890-4949-5	BH05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4949-1	BH01	Total/NA	Solid	8015NM Prep	
890-4949-2	BH02	Total/NA	Solid	8015NM Prep	
890-4949-3	BH03	Total/NA	Solid	8015NM Prep	
890-4949-4	BH04	Total/NA	Solid	8015NM Prep	
890-4949-5	BH05	Total/NA	Solid	8015NM Prep	
MB 880-58523/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58523/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58523/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30945-A-1-I MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-30945-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4949-1	BH01	Total/NA	Solid	8015B NM	58523
890-4949-2	BH02	Total/NA	Solid	8015B NM	58523

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QC Association Summary

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

GC Semi VOA (Continued)

Analysis Batch: 58682 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4949-3	BH03	Total/NA	Solid	8015B NM	58523
890-4949-4	BH04	Total/NA	Solid	8015B NM	58523
890-4949-5	BH05	Total/NA	Solid	8015B NM	58523
MB 880-58523/1-A	Method Blank	Total/NA	Solid	8015B NM	58523
LCS 880-58523/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58523
LCSD 880-58523/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58523
880-30945-A-1-I MS	Matrix Spike	Total/NA	Solid	8015B NM	58523
880-30945-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	58523

Analysis Batch: 58926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4949-1	BH01	Total/NA	Solid	8015 NM	
890-4949-2	BH02	Total/NA	Solid	8015 NM	
890-4949-3	BH03	Total/NA	Solid	8015 NM	
890-4949-4	BH04	Total/NA	Solid	8015 NM	
890-4949-5	BH05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 57875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4949-1	BH01	Soluble	Solid	DI Leach	
890-4949-2	BH02	Soluble	Solid	DI Leach	
890-4949-3	BH03	Soluble	Solid	DI Leach	
890-4949-4	BH04	Soluble	Solid	DI Leach	
890-4949-5	BH05	Soluble	Solid	DI Leach	
MB 880-57875/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57875/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57875/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4949-1 MS	BH01	Soluble	Solid	DI Leach	
890-4949-1 MSD	BH01	Soluble	Solid	DI Leach	

Analysis Batch: 58007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4949-1	BH01	Soluble	Solid	300.0	57875
890-4949-2	BH02	Soluble	Solid	300.0	57875
890-4949-3	BH03	Soluble	Solid	300.0	57875
890-4949-4	BH04	Soluble	Solid	300.0	57875
890-4949-5	BH05	Soluble	Solid	300.0	57875
MB 880-57875/1-A	Method Blank	Soluble	Solid	300.0	57875
LCS 880-57875/2-A	Lab Control Sample	Soluble	Solid	300.0	57875
LCSD 880-57875/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57875
890-4949-1 MS	BH01	Soluble	Solid	300.0	57875
890-4949-1 MSD	BH01	Soluble	Solid	300.0	57875

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Lab Chronicle

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

Client Sample ID: BH01
Date Collected: 07/13/23 12:13
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4949-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57993	07/19/23 08:25	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	57992	07/19/23 17:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58107	07/20/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			58926	07/31/23 16:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58523	07/26/23 09:28	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	58682	07/29/23 03:11	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		20			58007	07/19/23 08:28	CH	EET MID

Client Sample ID: BH02
Date Collected: 07/13/23 12:25
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4949-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57993	07/19/23 08:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57992	07/19/23 16:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58107	07/20/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			58926	07/31/23 16:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58523	07/26/23 09:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58682	07/29/23 03:53	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		10			58007	07/19/23 08:43	CH	EET MID

Client Sample ID: BH03
Date Collected: 07/13/23 12:30
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4949-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	57993	07/19/23 08:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57992	07/19/23 16:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58107	07/20/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			58926	07/31/23 16:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58523	07/26/23 09:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58682	07/29/23 04:14	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1			58007	07/19/23 08:48	CH	EET MID

Client Sample ID: BH04
Date Collected: 07/13/23 11:05
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4949-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57993	07/19/23 08:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57992	07/19/23 17:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58107	07/20/23 10:18	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

Client Sample ID: BH04
Date Collected: 07/13/23 11:05
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4949-4
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			58926	07/31/23 16:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58523	07/26/23 09:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58682	07/29/23 04:36	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1			58007	07/19/23 08:53	CH	EET MID

Client Sample ID: BH05
Date Collected: 07/13/23 10:55
Date Received: 07/14/23 14:35

Lab Sample ID: 890-4949-5
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	57993	07/19/23 08:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57992	07/19/23 17:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58107	07/20/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			58926	07/31/23 16:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58523	07/26/23 09:28	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58682	07/29/23 03:32	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57875	07/17/23 15:01	KS	EET MID
Soluble	Analysis	300.0		1			58007	07/19/23 08:58	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 Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

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
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- 13
- 14

Method Summary

Client: Ensolum
Project/Site: Poker Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

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 Laker Unit 102

Job ID: 890-4949-1
SDG: 03C1558248

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4949-1	BH01	Solid	07/13/23 12:13	07/14/23 14:35	3
890-4949-2	BH02	Solid	07/13/23 12:25	07/14/23 14:35	3
890-4949-3	BH03	Solid	07/13/23 12:30	07/14/23 14:35	1
890-4949-4	BH04	Solid	07/13/23 11:05	07/14/23 14:35	2
890-4949-5	BH05	Solid	07/13/23 10:55	07/14/23 14:35	1

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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) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Ben Bell	Bill to: (if different)	Garrett Green
Company Name:	Ensco, LLC	Company Name:	XO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	bbell@xenco.com

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

Project Name:	Poker Lake Unit 102	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03CIS58248	Due Date:			
Project Location:	32.19279, -103.83618	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Meredith Roberty/Sarah Winters	Wet: ☒ Yes ☐ No			
PO #:		Thermometer ID:	7006059		
SAMPLE RECEIPT		Temp Blank:	☒ Yes ☐ No		
Samples Received Intact:	☒ Yes ☐ No	Correction Factor:	-0.02		
Cooler Custody Seals:	☒ Yes ☐ No	Temperature Reading:	4.4		
Sample Custody Seals:	☒ Yes ☐ No	Corrected Temperature:	4.2		
Total Containers:					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes
BH01	S	7/13/23	1210	3'	G	1	BTEX		None: NO
BH02	S	7/13/23	1225	3'	G	1	TPH		Cool: Cool
BH03	S	7/13/23	1230	1'	G	1	Chlorides		HCL: HC
BH04	S	7/13/23	1105	2'	G	1			H ₂ SO ₄ : H ₂
BH05	S	7/13/23	1055	1'	G	1			H ₃ PO ₄ : HP
Incident #: NAPP2315334597									
Cost Center: 113844001									
API: 30-D15-35/62									
Meredith Roberty									

Total 200.7 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	7/13/23 12:30	<i>[Signature]</i>	<i>[Signature]</i>	7/14/23 1435

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4949-1

SDG Number: 03C1558248

Login Number: 4949

List Source: Eurofins Carlsbad

List Number: 1

Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4949-1
SDG Number: 03C1558248

Login Number: 4949
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 07/18/23 11:21 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 3/4/2024 8:24:45 PM Revision 1

JOB DESCRIPTION

POKER LAKE UNIT 102

03C1558248

JOB NUMBER

890-6254-1

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



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

Generated
3/4/2024 8:24:45 PM
Revision 1

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Laboratory Job ID: 890-6254-1
SDG: 03C1558248

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Definitions/Glossary

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD 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: POKER LAKE UNIT 102

Job ID: 890-6254-1

Job ID: 890-6254-1

Eurofins Carlsbad

Job Narrative
890-6254-1

REVISION

The report being provided is a revision of the original report sent on 3/1/2024. The report (revision 1) is being revised due to Per client email, requesting TPH re run on sample #10.

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

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

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

Receipt

The samples were received on 2/23/2024 1:11 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 0.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW 01 (890-6254-1), SW 02 (890-6254-2), SW 03 (890-6254-3), SW 04 (890-6254-4), SW 05 (890-6254-5), SW 06 (890-6254-6), SW 07 (890-6254-7), SW 08 (890-6254-8), SW 09 (890-6254-9) and SW 10 (890-6254-10).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-74062/1-A), (880-24332-A-2 MDLV) and (880-24332-A-3 MB). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW 01 (890-6254-1), SW 02 (890-6254-2), SW 04 (890-6254-4), SW 05 (890-6254-5) and SW 09 (890-6254-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The method blank for analytical batch 880-74231 contained Toluene and m-Xylene & p-Xylene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8021B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-74062 and analytical batch 880-74231. The associated laboratory control sample (LCS) met acceptance criteria.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74294 and analytical batch 880-74320 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-74294/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW 01 (890-6254-1) and SW 03 (890-6254-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-74294 and analytical batch 880-74320 recovered outside control limits for the following analytes: Gasoline

Eurofins Carlsbad

Case Narrative

Client: Ensolum
Project: POKER LAKE UNIT 102

Job ID: 890-6254-1

Job ID: 890-6254-1 (Continued)

Eurofins Carlsbad

Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-74320 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-74320/58).

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 - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74023 and analytical batch 880-74143 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.

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Client Sample ID: SW 01

Lab Sample ID: 890-6254-1

Date Collected: 02/23/24 09:30

Matrix: Solid

Date Received: 02/23/24 13:11

Sample Depth: 0 - 5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		02/26/24 14:15	02/29/24 02:55	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		02/26/24 14:15	02/29/24 02:55	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		02/26/24 14:15	02/29/24 02:55	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398	mg/Kg		02/26/24 14:15	02/29/24 02:55	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		02/26/24 14:15	02/29/24 02:55	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		02/26/24 14:15	02/29/24 02:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	02/26/24 14:15	02/29/24 02:55	1
1,4-Difluorobenzene (Surr)	144	S1+	70 - 130	02/26/24 14:15	02/29/24 02:55	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			02/29/24 02:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			03/01/24 01:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *1	50.4	mg/Kg		02/28/24 16:56	03/01/24 01:59	1
Diesel Range Organics (Over C10-C28)	<50.4	U *1	50.4	mg/Kg		02/28/24 16:56	03/01/24 01:59	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		02/28/24 16:56	03/01/24 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	02/28/24 16:56	03/01/24 01:59	1
o-Terphenyl	104		70 - 130	02/28/24 16:56	03/01/24 01:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		5.02	mg/Kg			02/27/24 14:38	1

Client Sample ID: SW 02

Lab Sample ID: 890-6254-2

Date Collected: 02/23/24 09:35

Matrix: Solid

Date Received: 02/23/24 13:11

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		02/26/24 14:15	02/29/24 03:21	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/26/24 14:15	02/29/24 03:21	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/26/24 14:15	02/29/24 03:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/26/24 14:15	02/29/24 03:21	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/26/24 14:15	02/29/24 03:21	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/26/24 14:15	02/29/24 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	02/26/24 14:15	02/29/24 03:21	1

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Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Client Sample ID: SW 02

Lab Sample ID: 890-6254-2

Date Collected: 02/23/24 09:35

Matrix: Solid

Date Received: 02/23/24 13:11

Sample Depth: 0 - 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	151	S1+	70 - 130	02/26/24 14:15	02/29/24 03:21	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			02/29/24 03:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			03/01/24 02:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *1	50.5	mg/Kg		02/28/24 16:56	03/01/24 02:19	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5	mg/Kg		02/28/24 16:56	03/01/24 02:19	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		02/28/24 16:56	03/01/24 02:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			02/28/24 16:56	03/01/24 02:19	1
o-Terphenyl	90		70 - 130			02/28/24 16:56	03/01/24 02:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		5.01	mg/Kg			02/27/24 14:46	1

Client Sample ID: SW 03

Lab Sample ID: 890-6254-3

Date Collected: 02/23/24 09:40

Matrix: Solid

Date Received: 02/23/24 13:11

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		02/26/24 14:15	02/29/24 03:46	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/26/24 14:15	02/29/24 03:46	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/26/24 14:15	02/29/24 03:46	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		02/26/24 14:15	02/29/24 03:46	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/26/24 14:15	02/29/24 03:46	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/26/24 14:15	02/29/24 03:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			02/26/24 14:15	02/29/24 03:46	1
1,4-Difluorobenzene (Surr)	79		70 - 130			02/26/24 14:15	02/29/24 03:46	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			02/29/24 03:46	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			03/01/24 02:40	1

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Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Client Sample ID: SW 03

Lab Sample ID: 890-6254-3

Date Collected: 02/23/24 09:40

Matrix: Solid

Date Received: 02/23/24 13:11

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1	mg/Kg		02/28/24 16:56	03/01/24 02:40	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1	mg/Kg		02/28/24 16:56	03/01/24 02:40	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		02/28/24 16:56	03/01/24 02:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130			02/28/24 16:56	03/01/24 02:40	1
o-Terphenyl	103		70 - 130			02/28/24 16:56	03/01/24 02:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	225		5.00	mg/Kg			02/27/24 15:10	1

Client Sample ID: SW 04

Lab Sample ID: 890-6254-4

Date Collected: 02/23/24 09:45

Matrix: Solid

Date Received: 02/23/24 13:11

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/26/24 14:15	02/29/24 04:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/26/24 14:15	02/29/24 04:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/26/24 14:15	02/29/24 04:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/26/24 14:15	02/29/24 04:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/26/24 14:15	02/29/24 04:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/26/24 14:15	02/29/24 04:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130			02/26/24 14:15	02/29/24 04:12	1
1,4-Difluorobenzene (Surr)	127		70 - 130			02/26/24 14:15	02/29/24 04:12	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			02/29/24 04:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			03/01/24 03:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *1	50.3	mg/Kg		02/28/24 16:56	03/01/24 03:01	1
Diesel Range Organics (Over C10-C28)	<50.3	U *1	50.3	mg/Kg		02/28/24 16:56	03/01/24 03:01	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		02/28/24 16:56	03/01/24 03:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			02/28/24 16:56	03/01/24 03:01	1
o-Terphenyl	89		70 - 130			02/28/24 16:56	03/01/24 03:01	1

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Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Client Sample ID: SW 04
Date Collected: 02/23/24 09:45
Date Received: 02/23/24 13:11
Sample Depth: 0 - 4

Lab Sample ID: 890-6254-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	288		4.99	mg/Kg			02/27/24 15:18	1	

Client Sample ID: SW 05
Date Collected: 02/23/24 10:10
Date Received: 02/23/24 13:11
Sample Depth: 0 - 4

Lab Sample ID: 890-6254-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		02/26/24 14:15	02/29/24 04:37	1	
Toluene	<0.00200	U	0.00200	mg/Kg		02/26/24 14:15	02/29/24 04:37	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/26/24 14:15	02/29/24 04:37	1	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/26/24 14:15	02/29/24 04:37	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/26/24 14:15	02/29/24 04:37	1	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/26/24 14:15	02/29/24 04:37	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	92		70 - 130			02/26/24 14:15	02/29/24 04:37	1	
1,4-Difluorobenzene (Surr)	60	S1-	70 - 130			02/26/24 14:15	02/29/24 04:37	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			02/29/24 04:37	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			03/01/24 03:21	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1	mg/Kg		02/28/24 16:56	03/01/24 03:21	1	
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1	mg/Kg		02/28/24 16:56	03/01/24 03:21	1	
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		02/28/24 16:56	03/01/24 03:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	116		70 - 130			02/28/24 16:56	03/01/24 03:21	1	
o-Terphenyl	92		70 - 130			02/28/24 16:56	03/01/24 03:21	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	173		5.05	mg/Kg			02/27/24 15:26	1	

Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Client Sample ID: SW 06

Lab Sample ID: 890-6254-6

Date Collected: 02/23/24 10:15

Matrix: Solid

Date Received: 02/23/24 13:11

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		02/26/24 14:15	02/29/24 05:03	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/26/24 14:15	02/29/24 05:03	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/26/24 14:15	02/29/24 05:03	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/26/24 14:15	02/29/24 05:03	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/26/24 14:15	02/29/24 05:03	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/26/24 14:15	02/29/24 05:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	02/26/24 14:15	02/29/24 05:03	1
1,4-Difluorobenzene (Surr)	120		70 - 130	02/26/24 14:15	02/29/24 05:03	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			02/29/24 05:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			03/01/24 03:42	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	<50.5	U *1	50.5	mg/Kg		02/28/24 16:56	03/01/24 03:42	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5	mg/Kg		02/28/24 16:56	03/01/24 03:42	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		02/28/24 16:56	03/01/24 03:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	02/28/24 16:56	03/01/24 03:42	1
o-Terphenyl	94		70 - 130	02/28/24 16:56	03/01/24 03:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		4.97	mg/Kg			02/27/24 15:33	1

Client Sample ID: SW 07

Lab Sample ID: 890-6254-7

Date Collected: 02/23/24 10:20

Matrix: Solid

Date Received: 02/23/24 13:11

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		02/26/24 14:15	02/29/24 05:28	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/26/24 14:15	02/29/24 05:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/26/24 14:15	02/29/24 05:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/26/24 14:15	02/29/24 05:28	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/26/24 14:15	02/29/24 05:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/26/24 14:15	02/29/24 05:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	02/26/24 14:15	02/29/24 05:28	1

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Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Client Sample ID: SW 07

Date Collected: 02/23/24 10:20

Date Received: 02/23/24 13:11

Sample Depth: 0 - 4

Lab Sample ID: 890-6254-7

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	02/26/24 14:15	02/29/24 05:28	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			02/29/24 05:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			03/01/24 04:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *1	50.5	mg/Kg		02/28/24 16:56	03/01/24 04:03	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5	mg/Kg		02/28/24 16:56	03/01/24 04:03	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		02/28/24 16:56	03/01/24 04:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			02/28/24 16:56	03/01/24 04:03	1
o-Terphenyl	90		70 - 130			02/28/24 16:56	03/01/24 04:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171		4.96	mg/Kg			02/27/24 15:41	1

Client Sample ID: SW 08

Date Collected: 02/23/24 10:25

Date Received: 02/23/24 13:11

Sample Depth: 0 - 4

Lab Sample ID: 890-6254-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/26/24 14:15	02/29/24 05:54	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/26/24 14:15	02/29/24 05:54	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/26/24 14:15	02/29/24 05:54	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/26/24 14:15	02/29/24 05:54	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/26/24 14:15	02/29/24 05:54	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/26/24 14:15	02/29/24 05:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	02/26/24 14:15	02/29/24 05:54	1
1,4-Difluorobenzene (Surr)	90		70 - 130	02/26/24 14:15	02/29/24 05:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/29/24 05:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			03/01/24 04:24	1

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Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Client Sample ID: SW 08**Lab Sample ID: 890-6254-8****Date Collected: 02/23/24 10:25****Matrix: Solid****Date Received: 02/23/24 13:11****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	<49.7	U *1	49.7	mg/Kg		02/28/24 16:56	03/01/24 04:24	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7	mg/Kg		02/28/24 16:56	03/01/24 04:24	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		02/28/24 16:56	03/01/24 04:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			02/28/24 16:56	03/01/24 04:24	1
o-Terphenyl	102		70 - 130			02/28/24 16:56	03/01/24 04:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	234		5.01	mg/Kg			02/27/24 15:49	1

Client Sample ID: SW 09**Lab Sample ID: 890-6254-9****Date Collected: 02/23/24 10:35****Matrix: Solid****Date Received: 02/23/24 13:11****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		02/26/24 14:15	02/29/24 06:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/26/24 14:15	02/29/24 06:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/26/24 14:15	02/29/24 06:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/26/24 14:15	02/29/24 06:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/26/24 14:15	02/29/24 06:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/26/24 14:15	02/29/24 06:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130			02/26/24 14:15	02/29/24 06:19	1
1,4-Difluorobenzene (Surr)	111		70 - 130			02/26/24 14:15	02/29/24 06:19	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			02/29/24 06:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			03/01/24 04:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *1	49.6	mg/Kg		02/28/24 16:56	03/01/24 04:44	1
Diesel Range Organics (Over C10-C28)	<49.6	U *1	49.6	mg/Kg		02/28/24 16:56	03/01/24 04:44	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		02/28/24 16:56	03/01/24 04:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			02/28/24 16:56	03/01/24 04:44	1
o-Terphenyl	98		70 - 130			02/28/24 16:56	03/01/24 04:44	1

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Client Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Client Sample ID: SW 09
Date Collected: 02/23/24 10:35
Date Received: 02/23/24 13:11
Sample Depth: 0 - 5

Lab Sample ID: 890-6254-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	297		4.98	mg/Kg			02/27/24 15:57	1	

Client Sample ID: SW 10
Date Collected: 02/23/24 10:40
Date Received: 02/23/24 13:11
Sample Depth: 0 - 4

Lab Sample ID: 890-6254-10
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00198	U	0.00198	mg/Kg		02/26/24 14:15	02/29/24 06:45	1	
Toluene	<0.00198	U	0.00198	mg/Kg		02/26/24 14:15	02/29/24 06:45	1	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/26/24 14:15	02/29/24 06:45	1	
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/26/24 14:15	02/29/24 06:45	1	
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/26/24 14:15	02/29/24 06:45	1	
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/26/24 14:15	02/29/24 06:45	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	109		70 - 130			02/26/24 14:15	02/29/24 06:45	1	
1,4-Difluorobenzene (Surr)	82		70 - 130			02/26/24 14:15	02/29/24 06:45	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			02/29/24 06:45	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.7	U	49.7	mg/Kg			03/03/24 23:48	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		03/03/24 00:24	03/03/24 23:48	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		03/03/24 00:24	03/03/24 23:48	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		03/03/24 00:24	03/03/24 23:48	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	95		70 - 130			03/03/24 00:24	03/03/24 23:48	1	
o-Terphenyl	87		70 - 130			03/03/24 00:24	03/03/24 23:48	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	206		5.00	mg/Kg			02/27/24 15:04	1	

Surrogate Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-24332-A-3 MB	Method Blank	128	214 S1+
890-6254-1	SW 01	123	144 S1+
890-6254-1 MS	SW 01	112	92
890-6254-1 MSD	SW 01	75	105
890-6254-2	SW 02	156 S1+	151 S1+
890-6254-3	SW 03	94	79
890-6254-4	SW 04	167 S1+	127
890-6254-5	SW 05	92	60 S1-
890-6254-6	SW 06	77	120
890-6254-7	SW 07	101	82
890-6254-8	SW 08	111	90
890-6254-9	SW 09	150 S1+	111
890-6254-10	SW 10	109	82
LCS 880-74062/1-A	Lab Control Sample	139 S1+	107
LCSD 880-74062/2-A	Lab Control Sample Dup	126	118
MB 880-74062/5-A	Method Blank	72	127

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	OTPH1
		(70-130)	(70-130)
890-6253-A-21-H MS	Matrix Spike	110	86
890-6253-A-21-I MSD	Matrix Spike Duplicate	106	83
890-6254-1	SW 01	132 S1+	104
890-6254-2	SW 02	109	90
890-6254-3	SW 03	135 S1+	103
890-6254-4	SW 04	110	89
890-6254-5	SW 05	116	92
890-6254-6	SW 06	117	94
890-6254-7	SW 07	110	90
890-6254-8	SW 08	129	102
890-6254-9	SW 09	125	98
890-6254-10	SW 10	95	87
890-6285-A-39-D MS	Matrix Spike	119	96
890-6285-A-39-E MSD	Matrix Spike Duplicate	118	97
LCS 880-74294/2-A	Lab Control Sample	133 S1+	135 S1+
LCS 880-74527/2-A	Lab Control Sample	83	71
LCSD 880-74294/3-A	Lab Control Sample Dup	105	102
LCSD 880-74527/3-A	Lab Control Sample Dup	97	84
MB 880-74294/1-A	Method Blank	156 S1+	143 S1+
MB 880-74527/1-A	Method Blank	107	97

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74062/5-A

Matrix: Solid

Analysis Batch: 74231

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74062

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/26/24 14:15	02/29/24 02:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/26/24 14:15	02/29/24 02:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/26/24 14:15	02/29/24 02:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/26/24 14:15	02/29/24 02:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/26/24 14:15	02/29/24 02:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/26/24 14:15	02/29/24 02:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	02/26/24 14:15	02/29/24 02:30	1
1,4-Difluorobenzene (Surr)	127		70 - 130	02/26/24 14:15	02/29/24 02:30	1

Lab Sample ID: LCS 880-74062/1-A

Matrix: Solid

Analysis Batch: 74231

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1181		mg/Kg		118	70 - 130
Toluene	0.100	0.07869		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2134		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1016		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-74062/2-A

Matrix: Solid

Analysis Batch: 74231

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74062

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1161		mg/Kg		116	70 - 130	2	35
Toluene	0.100	0.08760		mg/Kg		88	70 - 130	11	35
Ethylbenzene	0.100	0.08255		mg/Kg		83	70 - 130	24	35
m-Xylene & p-Xylene	0.200	0.2139		mg/Kg		107	70 - 130	0	35
o-Xylene	0.100	0.08656		mg/Kg		87	70 - 130	16	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 890-6254-1 MS

Matrix: Solid

Analysis Batch: 74231

Client Sample ID: SW 01

Prep Type: Total/NA

Prep Batch: 74062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.101	0.09880		mg/Kg		98	70 - 130
Toluene	<0.00199	U F1	0.101	0.08019		mg/Kg		80	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

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

Lab Sample ID: 890-6254-1 MS

Matrix: Solid

Analysis Batch: 74231

Client Sample ID: SW 01

Prep Type: Total/NA

Prep Batch: 74062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.101	0.09586		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1873		mg/Kg		93	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.08689		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-6254-1 MSD

Matrix: Solid

Analysis Batch: 74231

Client Sample ID: SW 01

Prep Type: Total/NA

Prep Batch: 74062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00199	U F1	0.100	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00199	U F1	0.100	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	<0.00400	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00199	U F1	0.100	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	75		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-24332-A-3 MB

Matrix: Solid

Analysis Batch: 74231

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			02/28/24 22:42	1
Toluene	<0.00200	U	0.00200	mg/Kg			02/28/24 22:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			02/28/24 22:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			02/28/24 22:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			02/28/24 22:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			02/28/24 22:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130		02/28/24 22:42	1
1,4-Difluorobenzene (Surr)	214	S1+	70 - 130		02/28/24 22:42	1

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

Lab Sample ID: MB 880-74294/1-A

Matrix: Solid

Analysis Batch: 74320

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74294

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		02/28/24 16:56	02/29/24 20:03	1

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QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

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

Lab Sample ID: MB 880-74294/1-A
Matrix: Solid
Analysis Batch: 74320

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74294

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/28/24 16:56	02/29/24 20:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/28/24 16:56	02/29/24 20:03	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130			02/28/24 16:56	02/29/24 20:03	1
o-Terphenyl	143	S1+	70 - 130			02/28/24 16:56	02/29/24 20:03	1

Lab Sample ID: LCS 880-74294/2-A
Matrix: Solid
Analysis Batch: 74320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74294

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	797.7		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1139		mg/Kg		114	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	133	S1+	70 - 130				
o-Terphenyl	135	S1+	70 - 130				

Lab Sample ID: LCSD 880-74294/3-A
Matrix: Solid
Analysis Batch: 74320

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74294

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1053	*1	mg/Kg		105	70 - 130	28	20
Diesel Range Organics (Over C10-C28)	1000	890.6	*1	mg/Kg		89	70 - 130	24	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	105		70 - 130						
o-Terphenyl	102		70 - 130						

Lab Sample ID: 890-6253-A-21-H MS
Matrix: Solid
Analysis Batch: 74320

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74294

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	997	886.7		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	109	*1	997	1032		mg/Kg		93	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
1-Chlorooctane	110		70 - 130						
o-Terphenyl	86		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

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

Lab Sample ID: 890-6253-A-21-I MSD

Matrix: Solid

Analysis Batch: 74320

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 74294

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	997	846.8		mg/Kg		80	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	109	*1	997	983.2		mg/Kg		88	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	106		70 - 130								
o-Terphenyl	83		70 - 130								

Lab Sample ID: MB 880-74527/1-A

Matrix: Solid

Analysis Batch: 74540

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74527

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		03/03/24 00:24	03/03/24 20:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/03/24 00:24	03/03/24 20:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/03/24 00:24	03/03/24 20:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			03/03/24 00:24	03/03/24 20:56	1
o-Terphenyl	97		70 - 130			03/03/24 00:24	03/03/24 20:56	1

Lab Sample ID: LCS 880-74527/2-A

Matrix: Solid

Analysis Batch: 74540

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	761.7		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1023		mg/Kg		102	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	83		70 - 130						
o-Terphenyl	71		70 - 130						

Lab Sample ID: LCSD 880-74527/3-A

Matrix: Solid

Analysis Batch: 74540

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74527

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	805.8		mg/Kg		81	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1218		mg/Kg		122	70 - 130	17	20

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QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

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

Lab Sample ID: LCSD 880-74527/3-A
Matrix: Solid
Analysis Batch: 74540

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74527

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 890-6285-A-39-D MS
Matrix: Solid
Analysis Batch: 74540

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74527

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1000	906.2		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U	1000	1062		mg/Kg		102	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	119		70 - 130						
o-Terphenyl	96		70 - 130						

Lab Sample ID: 890-6285-A-39-E MSD
Matrix: Solid
Analysis Batch: 74540

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 74527

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1000	923.7		mg/Kg		88	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.6	U	1000	1070		mg/Kg		103	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	118		70 - 130								
o-Terphenyl	97		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74023/1-A
Matrix: Solid
Analysis Batch: 74143

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			02/27/24 12:01	1

Lab Sample ID: LCS 880-74023/2-A
Matrix: Solid
Analysis Batch: 74143

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.8		mg/Kg		104	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-74023/3-A
Matrix: Solid
Analysis Batch: 74143

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	262.2		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-6253-A-31-B MS
Matrix: Solid
Analysis Batch: 74143

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11900	F1	4980	17600	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 890-6253-A-31-C MSD
Matrix: Solid
Analysis Batch: 74143

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11900	F1	4980	17580	F1	mg/Kg		114	90 - 110	0	20

Lab Sample ID: MB 880-74024/1-A
Matrix: Solid
Analysis Batch: 74144

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			02/27/24 14:43	1

Lab Sample ID: LCS 880-74024/2-A
Matrix: Solid
Analysis Batch: 74144

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	262.6		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-74024/3-A
Matrix: Solid
Analysis Batch: 74144

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	261.1		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 890-6254-10 MS
Matrix: Solid
Analysis Batch: 74144

Client Sample ID: SW 10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	206		250	462.3		mg/Kg		103	90 - 110		

Lab Sample ID: 890-6254-10 MSD
Matrix: Solid
Analysis Batch: 74144

Client Sample ID: SW 10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	206		250	472.4		mg/Kg		107	90 - 110	2	20

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QC Association Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

GC VOA

Prep Batch: 74062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6254-1	SW 01	Total/NA	Solid	5035	
890-6254-2	SW 02	Total/NA	Solid	5035	
890-6254-3	SW 03	Total/NA	Solid	5035	
890-6254-4	SW 04	Total/NA	Solid	5035	
890-6254-5	SW 05	Total/NA	Solid	5035	
890-6254-6	SW 06	Total/NA	Solid	5035	
890-6254-7	SW 07	Total/NA	Solid	5035	
890-6254-8	SW 08	Total/NA	Solid	5035	
890-6254-9	SW 09	Total/NA	Solid	5035	
890-6254-10	SW 10	Total/NA	Solid	5035	
MB 880-74062/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74062/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74062/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6254-1 MS	SW 01	Total/NA	Solid	5035	
890-6254-1 MSD	SW 01	Total/NA	Solid	5035	

Analysis Batch: 74231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6254-1	SW 01	Total/NA	Solid	8021B	74062
890-6254-2	SW 02	Total/NA	Solid	8021B	74062
890-6254-3	SW 03	Total/NA	Solid	8021B	74062
890-6254-4	SW 04	Total/NA	Solid	8021B	74062
890-6254-5	SW 05	Total/NA	Solid	8021B	74062
890-6254-6	SW 06	Total/NA	Solid	8021B	74062
890-6254-7	SW 07	Total/NA	Solid	8021B	74062
890-6254-8	SW 08	Total/NA	Solid	8021B	74062
890-6254-9	SW 09	Total/NA	Solid	8021B	74062
890-6254-10	SW 10	Total/NA	Solid	8021B	74062
880-24332-A-3 MB	Method Blank	Total/NA	Solid	8021B	
MB 880-74062/5-A	Method Blank	Total/NA	Solid	8021B	74062
LCS 880-74062/1-A	Lab Control Sample	Total/NA	Solid	8021B	74062
LCSD 880-74062/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74062
890-6254-1 MS	SW 01	Total/NA	Solid	8021B	74062
890-6254-1 MSD	SW 01	Total/NA	Solid	8021B	74062

Analysis Batch: 74390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6254-1	SW 01	Total/NA	Solid	Total BTEX	
890-6254-2	SW 02	Total/NA	Solid	Total BTEX	
890-6254-3	SW 03	Total/NA	Solid	Total BTEX	
890-6254-4	SW 04	Total/NA	Solid	Total BTEX	
890-6254-5	SW 05	Total/NA	Solid	Total BTEX	
890-6254-6	SW 06	Total/NA	Solid	Total BTEX	
890-6254-7	SW 07	Total/NA	Solid	Total BTEX	
890-6254-8	SW 08	Total/NA	Solid	Total BTEX	
890-6254-9	SW 09	Total/NA	Solid	Total BTEX	
890-6254-10	SW 10	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

GC Semi VOA

Prep Batch: 74294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6254-1	SW 01	Total/NA	Solid	8015NM Prep	
890-6254-2	SW 02	Total/NA	Solid	8015NM Prep	
890-6254-3	SW 03	Total/NA	Solid	8015NM Prep	
890-6254-4	SW 04	Total/NA	Solid	8015NM Prep	
890-6254-5	SW 05	Total/NA	Solid	8015NM Prep	
890-6254-6	SW 06	Total/NA	Solid	8015NM Prep	
890-6254-7	SW 07	Total/NA	Solid	8015NM Prep	
890-6254-8	SW 08	Total/NA	Solid	8015NM Prep	
890-6254-9	SW 09	Total/NA	Solid	8015NM Prep	
MB 880-74294/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74294/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74294/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6253-A-21-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6253-A-21-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6254-1	SW 01	Total/NA	Solid	8015B NM	74294
890-6254-2	SW 02	Total/NA	Solid	8015B NM	74294
890-6254-3	SW 03	Total/NA	Solid	8015B NM	74294
890-6254-4	SW 04	Total/NA	Solid	8015B NM	74294
890-6254-5	SW 05	Total/NA	Solid	8015B NM	74294
890-6254-6	SW 06	Total/NA	Solid	8015B NM	74294
890-6254-7	SW 07	Total/NA	Solid	8015B NM	74294
890-6254-8	SW 08	Total/NA	Solid	8015B NM	74294
890-6254-9	SW 09	Total/NA	Solid	8015B NM	74294
MB 880-74294/1-A	Method Blank	Total/NA	Solid	8015B NM	74294
LCS 880-74294/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74294
LCSD 880-74294/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74294
890-6253-A-21-H MS	Matrix Spike	Total/NA	Solid	8015B NM	74294
890-6253-A-21-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	74294

Analysis Batch: 74464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6254-1	SW 01	Total/NA	Solid	8015 NM	
890-6254-2	SW 02	Total/NA	Solid	8015 NM	
890-6254-3	SW 03	Total/NA	Solid	8015 NM	
890-6254-4	SW 04	Total/NA	Solid	8015 NM	
890-6254-5	SW 05	Total/NA	Solid	8015 NM	
890-6254-6	SW 06	Total/NA	Solid	8015 NM	
890-6254-7	SW 07	Total/NA	Solid	8015 NM	
890-6254-8	SW 08	Total/NA	Solid	8015 NM	
890-6254-9	SW 09	Total/NA	Solid	8015 NM	
890-6254-10	SW 10	Total/NA	Solid	8015 NM	

Prep Batch: 74527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6254-10	SW 10	Total/NA	Solid	8015NM Prep	
MB 880-74527/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74527/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74527/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

GC Semi VOA (Continued)

Prep Batch: 74527 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6285-A-39-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6285-A-39-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6254-10	SW 10	Total/NA	Solid	8015B NM	74527
MB 880-74527/1-A	Method Blank	Total/NA	Solid	8015B NM	74527
LCS 880-74527/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74527
LCSD 880-74527/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74527
890-6285-A-39-D MS	Matrix Spike	Total/NA	Solid	8015B NM	74527
890-6285-A-39-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	74527

HPLC/IC

Leach Batch: 74023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6254-1	SW 01	Soluble	Solid	DI Leach	
890-6254-2	SW 02	Soluble	Solid	DI Leach	
890-6254-3	SW 03	Soluble	Solid	DI Leach	
890-6254-4	SW 04	Soluble	Solid	DI Leach	
890-6254-5	SW 05	Soluble	Solid	DI Leach	
890-6254-6	SW 06	Soluble	Solid	DI Leach	
890-6254-7	SW 07	Soluble	Solid	DI Leach	
890-6254-8	SW 08	Soluble	Solid	DI Leach	
890-6254-9	SW 09	Soluble	Solid	DI Leach	
MB 880-74023/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74023/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74023/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6253-A-31-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6253-A-31-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 74024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6254-10	SW 10	Soluble	Solid	DI Leach	
MB 880-74024/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74024/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74024/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6254-10 MS	SW 10	Soluble	Solid	DI Leach	
890-6254-10 MSD	SW 10	Soluble	Solid	DI Leach	

Analysis Batch: 74143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6254-1	SW 01	Soluble	Solid	300.0	74023
890-6254-2	SW 02	Soluble	Solid	300.0	74023
890-6254-3	SW 03	Soluble	Solid	300.0	74023
890-6254-4	SW 04	Soluble	Solid	300.0	74023
890-6254-5	SW 05	Soluble	Solid	300.0	74023
890-6254-6	SW 06	Soluble	Solid	300.0	74023
890-6254-7	SW 07	Soluble	Solid	300.0	74023
890-6254-8	SW 08	Soluble	Solid	300.0	74023
890-6254-9	SW 09	Soluble	Solid	300.0	74023

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QC Association Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

HPLC/IC (Continued)

Analysis Batch: 74143 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74023/1-A	Method Blank	Soluble	Solid	300.0	74023
LCS 880-74023/2-A	Lab Control Sample	Soluble	Solid	300.0	74023
LCSD 880-74023/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74023
890-6253-A-31-B MS	Matrix Spike	Soluble	Solid	300.0	74023
890-6253-A-31-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	74023

Analysis Batch: 74144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6254-10	SW 10	Soluble	Solid	300.0	74024
MB 880-74024/1-A	Method Blank	Soluble	Solid	300.0	74024
LCS 880-74024/2-A	Lab Control Sample	Soluble	Solid	300.0	74024
LCSD 880-74024/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74024
890-6254-10 MS	SW 10	Soluble	Solid	300.0	74024
890-6254-10 MSD	SW 10	Soluble	Solid	300.0	74024

Lab Chronicle

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Client Sample ID: SW 01
Date Collected: 02/23/24 09:30
Date Received: 02/23/24 13:11

Lab Sample ID: 890-6254-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74062	02/26/24 14:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74231	02/29/24 02:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			74390	02/29/24 02:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			74464	03/01/24 01:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74294	02/28/24 16:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	03/01/24 01:59	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74023	02/26/24 12:00	SA	EET MID
Soluble	Analysis	300.0		1			74143	02/27/24 14:38	CH	EET MID

Client Sample ID: SW 02
Date Collected: 02/23/24 09:35
Date Received: 02/23/24 13:11

Lab Sample ID: 890-6254-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74062	02/26/24 14:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74231	02/29/24 03:21	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			74390	02/29/24 03:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			74464	03/01/24 02:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74294	02/28/24 16:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	03/01/24 02:19	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	74023	02/26/24 12:00	SA	EET MID
Soluble	Analysis	300.0		1			74143	02/27/24 14:46	CH	EET MID

Client Sample ID: SW 03
Date Collected: 02/23/24 09:40
Date Received: 02/23/24 13:11

Lab Sample ID: 890-6254-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74062	02/26/24 14:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74231	02/29/24 03:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			74390	02/29/24 03:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			74464	03/01/24 02:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	74294	02/28/24 16:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	03/01/24 02:40	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	74023	02/26/24 12:00	SA	EET MID
Soluble	Analysis	300.0		1			74143	02/27/24 15:10	CH	EET MID

Client Sample ID: SW 04
Date Collected: 02/23/24 09:45
Date Received: 02/23/24 13:11

Lab Sample ID: 890-6254-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74062	02/26/24 14:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74231	02/29/24 04:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			74390	02/29/24 04:12	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Client Sample ID: SW 04**Lab Sample ID: 890-6254-4****Date Collected: 02/23/24 09:45****Matrix: Solid****Date Received: 02/23/24 13:11**

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			74464	03/01/24 03:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	74294	02/28/24 16:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	03/01/24 03:01	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74023	02/26/24 12:00	SA	EET MID
Soluble	Analysis	300.0		1			74143	02/27/24 15:18	CH	EET MID

Client Sample ID: SW 05**Lab Sample ID: 890-6254-5****Date Collected: 02/23/24 10:10****Matrix: Solid****Date Received: 02/23/24 13:11**

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	74062	02/26/24 14:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74231	02/29/24 04:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			74390	02/29/24 04:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			74464	03/01/24 03:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74294	02/28/24 16:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	03/01/24 03:21	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74023	02/26/24 12:00	SA	EET MID
Soluble	Analysis	300.0		1			74143	02/27/24 15:26	CH	EET MID

Client Sample ID: SW 06**Lab Sample ID: 890-6254-6****Date Collected: 02/23/24 10:15****Matrix: Solid****Date Received: 02/23/24 13:11**

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	74062	02/26/24 14:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74231	02/29/24 05:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			74390	02/29/24 05:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			74464	03/01/24 03:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	74294	02/28/24 16:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	03/01/24 03:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74023	02/26/24 12:00	SA	EET MID
Soluble	Analysis	300.0		1			74143	02/27/24 15:33	CH	EET MID

Client Sample ID: SW 07**Lab Sample ID: 890-6254-7****Date Collected: 02/23/24 10:20****Matrix: Solid****Date Received: 02/23/24 13:11**

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	74062	02/26/24 14:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74231	02/29/24 05:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			74390	02/29/24 05:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			74464	03/01/24 04:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74294	02/28/24 16:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	03/01/24 04:03	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

Client Sample ID: SW 07**Date Collected: 02/23/24 10:20****Date Received: 02/23/24 13:11****Lab Sample ID: 890-6254-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	74023	02/26/24 12:00	SA	EET MID
Soluble	Analysis	300.0		1			74143	02/27/24 15:41	CH	EET MID

Client Sample ID: SW 08**Date Collected: 02/23/24 10:25****Date Received: 02/23/24 13:11****Lab Sample ID: 890-6254-8****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	74062	02/26/24 14:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74231	02/29/24 05:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			74390	02/29/24 05:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			74464	03/01/24 04:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74294	02/28/24 16:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	03/01/24 04:24	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	74023	02/26/24 12:00	SA	EET MID
Soluble	Analysis	300.0		1			74143	02/27/24 15:49	CH	EET MID

Client Sample ID: SW 09**Date Collected: 02/23/24 10:35****Date Received: 02/23/24 13:11****Lab Sample ID: 890-6254-9****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74062	02/26/24 14:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74231	02/29/24 06:19	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			74390	02/29/24 06:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			74464	03/01/24 04:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	74294	02/28/24 16:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	03/01/24 04:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74023	02/26/24 12:00	SA	EET MID
Soluble	Analysis	300.0		1			74143	02/27/24 15:57	CH	EET MID

Client Sample ID: SW 10**Date Collected: 02/23/24 10:40****Date Received: 02/23/24 13:11****Lab Sample ID: 890-6254-10****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74062	02/26/24 14:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74231	02/29/24 06:45	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			74390	02/29/24 06:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			74464	03/03/24 23:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	74527	03/03/24 00:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74540	03/03/24 23:48	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	74024	02/26/24 12:02	SA	EET MID
Soluble	Analysis	300.0		1			74144	02/27/24 15:04	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

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 102

Job ID: 890-6254-1
SDG: 03C1558248

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: POKER LAKE UNIT 102

Job ID: 890-6254-1
SDG: 03C1558248

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 102

Job ID: 890-6254-1
SDG: 03C1558248

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6254-1	SW 01	Solid	02/23/24 09:30	02/23/24 13:11	0 - 5
890-6254-2	SW 02	Solid	02/23/24 09:35	02/23/24 13:11	0 - 4
890-6254-3	SW 03	Solid	02/23/24 09:40	02/23/24 13:11	0 - 4
890-6254-4	SW 04	Solid	02/23/24 09:45	02/23/24 13:11	0 - 4
890-6254-5	SW 05	Solid	02/23/24 10:10	02/23/24 13:11	0 - 4
890-6254-6	SW 06	Solid	02/23/24 10:15	02/23/24 13:11	0 - 4
890-6254-7	SW 07	Solid	02/23/24 10:20	02/23/24 13:11	0 - 4
890-6254-8	SW 08	Solid	02/23/24 10:25	02/23/24 13:11	0 - 4
890-6254-9	SW 09	Solid	02/23/24 10:35	02/23/24 13:11	0 - 5
890-6254-10	SW 10	Solid	02/23/24 10:40	02/23/24 13:11	0 - 4



Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Ben Bell	Bill to: (if different)	Garrett Green
Company Name:	Ensolium	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

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

Project Name:	Poker Lake Unit 102	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST		Preservative Codes	
Project Number:	03C1558248	Due Date:							
Project Location:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm							
Sampler's Name:		Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No	Parameters			
PO #:		Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:	Therm 7	890-6254 Chain of Custody			
		Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor:	-0.2	Na ₂ S ₂ O ₃ NaSO ₃			
		Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading:	-0.2	Zn Acetate+NaOH Zn			
		Total Containers:		Corrected Temperature:	0.0	NaOH+Ascorbic Acid: SAPC			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments		
SW01	S	2/23/2024	930	0-5	Comp	1	Incident ID: NAPT2315334597		
SW02	S	2/23/2024	935	0-4	Comp	1	Cost Center: 1138441001		
SW03	S	2/23/2024	940	0-4	Comp	1	AFE:		
SW04	S	2/23/2024	945	0-4	Comp	1			
SW05	S	2/23/2024	1010	0-4	Comp	1			
SW06	S	2/23/2024	1015	0-4	Comp	1			
SW07	S	2/23/2024	1020	0-4	Comp	1			
SW08	S	2/23/2024	1025	0-4	Comp	1			
SW09	S	2/23/2024	1035	0-5	Comp	1			
SW10	S	2/23/2024	1040	0-4	Comp	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 / 7470.1 / 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
CHH	Aldebe	13:11 2/23			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6254-1
SDG Number: 03C1558248

Login Number: 6254
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6254-1
SDG Number: 03C1558248

Login Number: 6254
List Number: 2
Creator: Wheeler, Jazmine

List Source: Eurofins Midland
List Creation: 02/26/24 08:13 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	



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

March 13, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 102

Enclosed are the results of analyses for samples received by the laboratory on 03/08/24 13:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/06/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 04 A @ 5' (H241203-01)

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	03/12/2024	ND	2.16	108	2.00	0.927	
Toluene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.667	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	0.298	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.38	106	6.00	0.804	
Total BTEX	<0.300	0.300	03/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/11/2024	ND	225	112	200	0.273	
DRO >C10-C28*	54.4	10.0	03/11/2024	ND	233	116	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/06/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 23 A @ 5' (H241203-02)

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	03/12/2024	ND	2.16	108	2.00	0.927	
Toluene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.667	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	0.298	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.38	106	6.00	0.804	
Total BTEX	<0.300	0.300	03/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/11/2024	ND	225	112	200	0.273	
DRO >C10-C28*	21.1	10.0	03/11/2024	ND	233	116	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 03/08/2024
 Reported: 03/13/2024
 Project Name: POKER LAKE UNIT 102
 Project Number: 03C1558248
 Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/07/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 31 A @ 7' (H241203-03)

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	03/12/2024	ND	2.16	108	2.00	0.927	
Toluene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.667	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	0.298	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.38	106	6.00	0.804	
Total BTEX	<0.300	0.300	03/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/11/2024	ND	225	112	200	0.273	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	233	116	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 30 A @ 7' (H241203-04)

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	03/12/2024	ND	2.16	108	2.00	0.927	
Toluene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.667	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	0.298	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.38	106	6.00	0.804	
Total BTEX	<0.300	0.300	03/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/12/2024	ND	225	112	200	0.273	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	233	116	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 25 A @ 7' (H241203-05)

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	03/12/2024	ND	2.16	108	2.00	0.927		
Toluene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.667		
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	0.298		
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.38	106	6.00	0.804		
Total BTEx	<0.300	0.300	03/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16000	16.0	03/12/2024	ND	416	104	400	7.41		

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	03/12/2024	ND	225	112	200	0.273	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	233	116	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 27 A @ 7' (H241203-06)

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	03/12/2024	ND	2.16	108	2.00	0.927	
Toluene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.667	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	0.298	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.38	106	6.00	0.804	
Total BTEX	<0.300	0.300	03/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/12/2024	ND	225	112	200	0.273	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	233	116	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 29 A @ 7' (H241203-07)

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	03/12/2024	ND	2.16	108	2.00	0.927	
Toluene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.667	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	0.298	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.38	106	6.00	0.804	
Total BTEX	<0.300	0.300	03/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/12/2024	ND	225	112	200	0.273	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	233	116	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 03/08/2024
 Reported: 03/13/2024
 Project Name: POKER LAKE UNIT 102
 Project Number: 03C1558248
 Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 06 A @ 5' (H241203-08)

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	03/12/2024	ND	2.16	108	2.00	0.927	
Toluene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.667	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	0.298	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.38	106	6.00	0.804	
Total BTEX	<0.300	0.300	03/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	03/12/2024	ND	416	104	400	7.41	QM-07

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	03/12/2024	ND	225	112	200	0.273	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	233	116	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 07 A @ 5' (H241203-09)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.927	
Toluene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.667	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	0.298	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.38	106	6.00	0.804	
Total BTEX	<0.300	0.300	03/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/12/2024	ND	225	112	200	0.273	
DRO >C10-C28*	20.6	10.0	03/12/2024	ND	233	116	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 03/08/2024
 Reported: 03/13/2024
 Project Name: POKER LAKE UNIT 102
 Project Number: 03C1558248
 Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/07/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 08 A @ 5' (H241203-10)

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	03/12/2024	ND	2.16	108	2.00	0.927		
Toluene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.667		
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	0.298		
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.38	106	6.00	0.804		
Total BTEX	<0.300	0.300	03/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18800	16.0	03/12/2024	ND	416	104	400	7.41		

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	03/12/2024	ND	225	112	200	0.273	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	233	116	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 09 A @ 5' (H241203-11)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.927	
Toluene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.667	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	0.298	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.38	106	6.00	0.804	
Total BTX	<0.300	0.300	03/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16600	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	17.0	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 10 A @ 5' (H241203-12)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.927	
Toluene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.667	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	0.298	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.38	106	6.00	0.804	
Total BTX	<0.300	0.300	03/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28800	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 12 A @ 5' (H241203-13)

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	03/12/2024	ND	2.16	108	2.00	0.927		
Toluene*	<0.050	0.050	03/12/2024	ND	2.16	108	2.00	0.667		
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	0.298		
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.38	106	6.00	0.804		
Total BTEX	<0.300	0.300	03/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	03/12/2024	ND	416	104	400	7.41		

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/07/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 13 A @ 5' (H241203-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2024	ND	1.95	97.3	2.00	5.60		
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97		
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61		
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54		
Total BTX	<0.300	0.300	03/12/2024	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	31600	16.0	03/12/2024	ND	416	104	400	7.41		

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 01 A @ 0-7' (H241203-15)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	1.95	97.3	2.00	5.60	
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54	
Total BTX	<0.300	0.300	03/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	196	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	49.5	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 02 A @ 0-7' (H241203-16)

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	03/12/2024	ND	1.95	97.3	2.00	5.60	
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54	
Total BTEX	<0.300	0.300	03/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	22.9	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 24 A @ 6' (H241203-17)

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	03/12/2024	ND	1.95	97.3	2.00	5.60		
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97		
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61		
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54		
Total BTEX	<0.300	0.300	03/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	03/12/2024	ND	416	104	400	7.41		

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 06 A @ 0-5' (H241203-18)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	1.95	97.3	2.00	5.60	
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54	
Total BTX	<0.300	0.300	03/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	15.0	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 26 A @ 6' (H241203-19)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	1.95	97.3	2.00	5.60	
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54	
Total BTX	<0.300	0.300	03/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	13.4	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 03/08/2024
 Reported: 03/13/2024
 Project Name: POKER LAKE UNIT 102
 Project Number: 03C1558248
 Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 08 A @ 0-7' (H241203-20)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	1.95	97.3	2.00	5.60	
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54	
Total BTX	<0.300	0.300	03/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	10.0	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 07 A @ 0-5' (H241203-21)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	1.95	97.3	2.00	5.60	
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54	
Total BTX	<0.300	0.300	03/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 11 @ 0-7' (H241203-22)

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	03/12/2024	ND	1.95	97.3	2.00	5.60	
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54	
Total BTEX	<0.300	0.300	03/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	17.8	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 12 @ 0-7' (H241203-23)

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	03/12/2024	ND	1.95	97.3	2.00	5.60	
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54	
Total BTEX	<0.300	0.300	03/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	144	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	32.2	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 13 A @ 0-5' (H241203-24)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2024	ND	1.95	97.3	2.00	5.60		
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97		
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61		
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54		
Total BTX	<0.300	0.300	03/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	448	16.0	03/12/2024	ND	416	104	400	7.41		

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	28.9	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 10 A @ 0-5' (H241203-25)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	1.95	97.3	2.00	5.60	
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54	
Total BTX	<0.300	0.300	03/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/12/2024	ND	416	104	400	7.41	

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 19 A @ 7' (H241203-26)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2024	ND	1.95	97.3	2.00	5.60		
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97		
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61		
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54		
Total BTEX	<0.300	0.300	03/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	13800	16.0	03/12/2024	ND	416	104	400	7.41		

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	03/11/2024	ND	201	100	200	0.200	
DRO >C10-C28*	64.3	10.0	03/11/2024	ND	195	97.6	200	0.663	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 11 A @ 5' (H241203-27)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2024	ND	1.95	97.3	2.00	5.60		
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97		
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61		
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54		
Total BTX	<0.300	0.300	03/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	40800	16.0	03/12/2024	ND	416	104	400	7.41		

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	03/12/2024	ND	224	112	200	1.89	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	200	100	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/08/2024
Reported: 03/13/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/08/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 14 A @ 5' (H241203-28)

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	03/12/2024	ND	1.95	97.3	2.00	5.60		
Toluene*	<0.050	0.050	03/12/2024	ND	2.04	102	2.00	4.97		
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.99	99.7	2.00	4.61		
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.07	101	6.00	4.54		
Total BTEX	<0.300	0.300	03/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24400	16.0	03/12/2024	ND	448	112	400	3.64		

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	03/12/2024	ND	224	112	200	1.89	
DRO >C10-C28*	45.8	10.0	03/12/2024	ND	200	100	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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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

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

Celey D. Keene, Lab Director/Quality Manager



Company Name: Ensochem LLC

Page 31 of 33



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC			BILL TO		ANALYSIS REQUEST				
Project Manager: Ben Belli			P.O. #:						
Address: 3122 National Park Hwy			Company: XTO Energy						
City: Carlsbad			Attn: Amy Ruth						
Phone #: (989) 854-0852			Address: 3104 E Greene St						
State: NM Zip: 88220			City: Carlsbad						
Project #: 03C1558248			State: NM Zip: 88220						
Project Name: Poker Lake Unit 102			Phone #:						
Project Location: 32.19279 -103.83118			Fax #:						
Sample Name: Marahna O'Dell			PRESERV		SAMPLING				
FOR LAB USE ONLY			MATRIX						
Lab I.D.			Sample I.D.						
Depth (feet)			(G)RAB OR (C)OMP.						
# CONTAINERS			GROUNDWATER						
			WASTEWATER						
			SOIL						
			OIL						
			SLUDGE						
			OTHER :						
			ACID/BASE:						
			ICE / COOL						
			OTHER :						
DATE			TIME						
11			13:15		Chloride				
12			13:15		TPH				
13			13:15		BTEX				
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1									



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Ben Bell

P.O. #:

Address: 3122 National Parks Hwy
City: Carlsbad State: NM Zip: 88220

Company: XTO Energy
Attn: Amy Ruth
Address: 3104 E. Greene St
City: Carlsbad State: NM Zip: 88220

Phone #: (989) 854-0852 Fax #:

Project #: 03C1558248 Project Owner:

Project Name: POKER LAKE Unit 102

Project Location: 32.19279, -103.83018

Sample Name:

Fax #:

FOR LAB USE ONLY

MATRIX

PRESERV

SAMPLING

Lab I.D.

Depth (feet)

4241303

SW07A

0-5'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE TIME

Chloride

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FS11A



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

March 28, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 102

Enclosed are the results of analyses for samples received by the laboratory on 03/22/24 15:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/22/2024
Reported: 03/28/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW 01 B 0-7' (H241520-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2024	ND	2.02	101	2.00	5.00	
Toluene*	<0.050	0.050	03/26/2024	ND	2.08	104	2.00	4.49	
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.07	104	2.00	4.40	
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.19	103	6.00	3.95	
Total BTX	<0.300	0.300	03/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/26/2024	ND	416	104	400	7.41	

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	03/26/2024	ND	214	107	200	6.52	
DRO >C10-C28*	17.8	10.0	03/26/2024	ND	200	100	200	8.31	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/22/2024
Reported: 03/28/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW 06 A 0-6' (H241520-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2024	ND	2.02	101	2.00	5.00	
Toluene*	<0.050	0.050	03/26/2024	ND	2.08	104	2.00	4.49	
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.07	104	2.00	4.40	
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.19	103	6.00	3.95	
Total BTX	<0.300	0.300	03/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/26/2024	ND	416	104	400	7.41	

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	03/26/2024	ND	214	107	200	6.52	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	200	100	200	8.31	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/22/2024
Reported: 03/28/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW 10 A 0-6' (H241520-03)

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	03/26/2024	ND	2.02	101	2.00	5.00		
Toluene*	<0.050	0.050	03/26/2024	ND	2.08	104	2.00	4.49		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.07	104	2.00	4.40		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.19	103	6.00	3.95		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/26/2024	ND	416	104	400	7.41		

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	03/26/2024	ND	214	107	200	6.52	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	200	100	200	8.31	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/22/2024
Reported: 03/28/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW 12 A 0-7' (H241520-04)

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	03/26/2024	ND	2.02	101	2.00	5.00		
Toluene*	<0.050	0.050	03/26/2024	ND	2.08	104	2.00	4.49		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.07	104	2.00	4.40		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.19	103	6.00	3.95		
Total BTEx	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/26/2024	ND	416	104	400	7.41		

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	03/26/2024	ND	196	97.8	200	0.567	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	201	100	200	0.241	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/22/2024
Reported: 03/28/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: FS 10 B 6' (H241520-05)

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	03/26/2024	ND	2.02	101	2.00	5.00		
Toluene*	<0.050	0.050	03/26/2024	ND	2.08	104	2.00	4.49		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.07	104	2.00	4.40		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.19	103	6.00	3.95		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5120	16.0	03/26/2024	ND	416	104	400	7.41		

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	03/26/2024	ND	196	97.8	200	0.567	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	201	100	200	0.241	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/22/2024
Reported: 03/28/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: FS 11 B 6' (H241520-06)

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	03/26/2024	ND	2.02	101	2.00	5.00		
Toluene*	<0.050	0.050	03/26/2024	ND	2.08	104	2.00	4.49		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.07	104	2.00	4.40		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.19	103	6.00	3.95		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14000	16.0	03/26/2024	ND	416	104	400	7.41		

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	03/26/2024	ND	196	97.8	200	0.567	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	201	100	200	0.241	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 03/22/2024
 Reported: 03/28/2024
 Project Name: POKER LAKE UNIT 102
 Project Number: 03C1558248
 Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS 13 B 6' (H241520-07)

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	03/26/2024	ND	2.02	101	2.00	5.00	
Toluene*	<0.050	0.050	03/26/2024	ND	2.08	104	2.00	4.49	
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.07	104	2.00	4.40	
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.19	103	6.00	3.95	
Total BTEX	<0.300	0.300	03/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11900	16.0	03/26/2024	ND	416	104	400	7.41	

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	03/26/2024	ND	196	97.8	200	0.567	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	201	100	200	0.241	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/22/2024
Reported: 03/28/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO 32.19279, -103.83618

Sampling Date: 03/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: FS 14 B 6' (H241520-08)

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	03/26/2024	ND	2.02	101	2.00	5.00	
Toluene*	<0.050	0.050	03/26/2024	ND	2.08	104	2.00	4.49	
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.07	104	2.00	4.40	
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.19	103	6.00	3.95	
Total BTEX	<0.300	0.300	03/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13300	16.0	03/26/2024	ND	416	104	400	7.41	

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	03/26/2024	ND	196	97.8	200	0.567	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	201	100	200	0.241	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

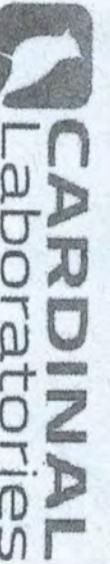
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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Ben Bell

P.O. #:

Address: 3122 National Park Hwy

Company: XTO Energy

City: Carlisle

State: NM Zip: 88220

Attn: Amy Rugh

Phone #: 989 854 0852

Fax #:

Address: 3109 E. Greenest

Project #: D3C1558248

Project Owner:

City: Carlisle

Project Name: Lake Lake Unit 102

State: NM Zip: 88220

Project Location: 321979, -103.83618

Phone #:

Sampler Name: ~~Ben~~ Mariana O'Dell

Fax #:

FOR LAB USE ONLY

MATRIX

PRESERV

SAMPLING

Lab I.D. 1041500

Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE COOL

OTHER :

DATE

TIME

BTX

Chlorides

TPH

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Relinquished By:

Date: 3/22/24

Time: 1:39

Received By:

Date: 3/22/24

Time: 15:04

Received By:

Date: 3/22/24

Time: 15:04

Received By:

Date: 3/22/24

Time: 15:04

Received By:

Date: 3/22/24

Time: 15:04

Received By:

Date: 3/22/24

Time: 15:04

Received By:

Relinquished By:

Date: 3/22/24

Time: 1:39

Received By:

Date: 3/22/24

Time: 15:04

Received By:

Date: 3/22/24

Time: 15:04

Received By:

Date: 3/22/24

Time: 15:04

Received By:

Date: 3/22/24

Time: 15:04

Received By:

Date: 3/22/24

Time: 15:04

Received By:

Delivered By: (Circle One)

Observed Temp. °C 2.82

Sample Condition Cool Intact

CHECKED BY: (Initials)

Turnaround Time: Standard

Thermometer ID #44-029

Corrosion Factor 3.8194

Bacteria (only) Sample Condition Cool Intact

Observed Temp. °C

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C #140

Sample Condition Cool Intact

CHECKED BY: (Initials)

Turnaround Time: Standard

Thermometer ID #44-029

Corrosion Factor 3.8194

Bacteria (only) Sample Condition Cool Intact

Observed Temp. °C

Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



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

July 02, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 102

Enclosed are the results of analyses for samples received by the laboratory on 06/26/24 14:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/26/2024
Reported: 07/02/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO

Sampling Date: 06/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BF 01 0.5' (H243830-01)

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	07/01/2024	ND	1.90	95.0	2.00	6.89		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96		
Total BTEx	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/02/2024	ND	432	108	400	0.00		

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	07/01/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
DAVID MCINNIS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/26/2024
Reported: 07/02/2024
Project Name: POKER LAKE UNIT 102
Project Number: 03C1558248
Project Location: XTO

Sampling Date: 06/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BF 02 4' (H243830-02)

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	07/01/2024	ND	1.90	95.0	2.00	6.89	
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96	
Total BTEX	<0.300	0.300	07/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/02/2024	ND	432	108	400	0.00	

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	07/01/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Caley D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]

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

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

QUESTIONS

Action 388501

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	388501
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2315334597
Incident Name	NAPP2315334597 POKER LAKE UNIT 102 @ 0
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	POKER LAKE UNIT 102
Date Release Discovered	05/21/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 9 BBL Recovered: 8 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 62 BBL Recovered: 7 BBL Lost: 55 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.

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

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

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

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

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

QUESTIONS, Page 2

Action 388501

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	388501
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/30/2024
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QUESTIONS, Page 3

Action 388501

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	388501
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
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	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	18800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	823
GRO+DRO (EPA SW-846 Method 8015M)	823
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	02/05/2024
On what date will (or did) the final sampling or liner inspection occur	03/22/2024
On what date will (or was) the remediation complete(d)	03/22/2024
What is the estimated surface area (in square feet) that will be reclaimed	12000
What is the estimated volume (in cubic yards) that will be reclaimed	2500
What is the estimated surface area (in square feet) that will be remediated	12000
What is the estimated volume (in cubic yards) that will be remediated	2500
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 388501

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	388501
	Action Type:	
		[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]
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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/30/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 388501

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 388501
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 388501

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 388501 Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)
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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	323482
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/25/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	4000

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	12000
What was the total volume (cubic yards) remediated	2500
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	12000
What was the total volume (in cubic yards) reclaimed	2500
Summarize any additional remediation activities not included by answers (above)	Site assessment and excavation at the Site to address the May 21, 2023 release of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure criteria. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing Site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture.

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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/30/2024
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QUESTIONS, Page 7

Action 388501

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	388501
	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	12000
What was the total volume of replacement material (in cubic yards) for this site	2500
<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 reseeding commence(d)	08/29/2024
Summarize any additional reclamation activities not included by answers (above)	The excavation area in the pasture was backfilled with locally procured topsoil. Following backfill activities, the disturbed area was graded and contoured to match the surrounding topography. Laboratory analytical results for the backfill soil samples confirmed compliance with NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH concentrations less than 100 mg/kg. On August 29, 2024, the Site was seeded with BLM seed mix #2 for sandy sites. The seed mix was applied via drill seeding. The Site will be monitored for vegetation growth to verify reclamation activities were successful.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/30/2024

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QUESTIONS, Page 8

Action 388501

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 388501
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 388501

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 388501
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	10/16/2024
amaxwell	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	10/16/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	10/16/2024